

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: P333277-830

Luminaire Tested: **S125DIP-S1090D1035U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333277-830  
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-S1090D1035U830-4F0-1E-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: 8130.6 lumens  
Efficiency: N/A  
Efficacy: 134.4 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

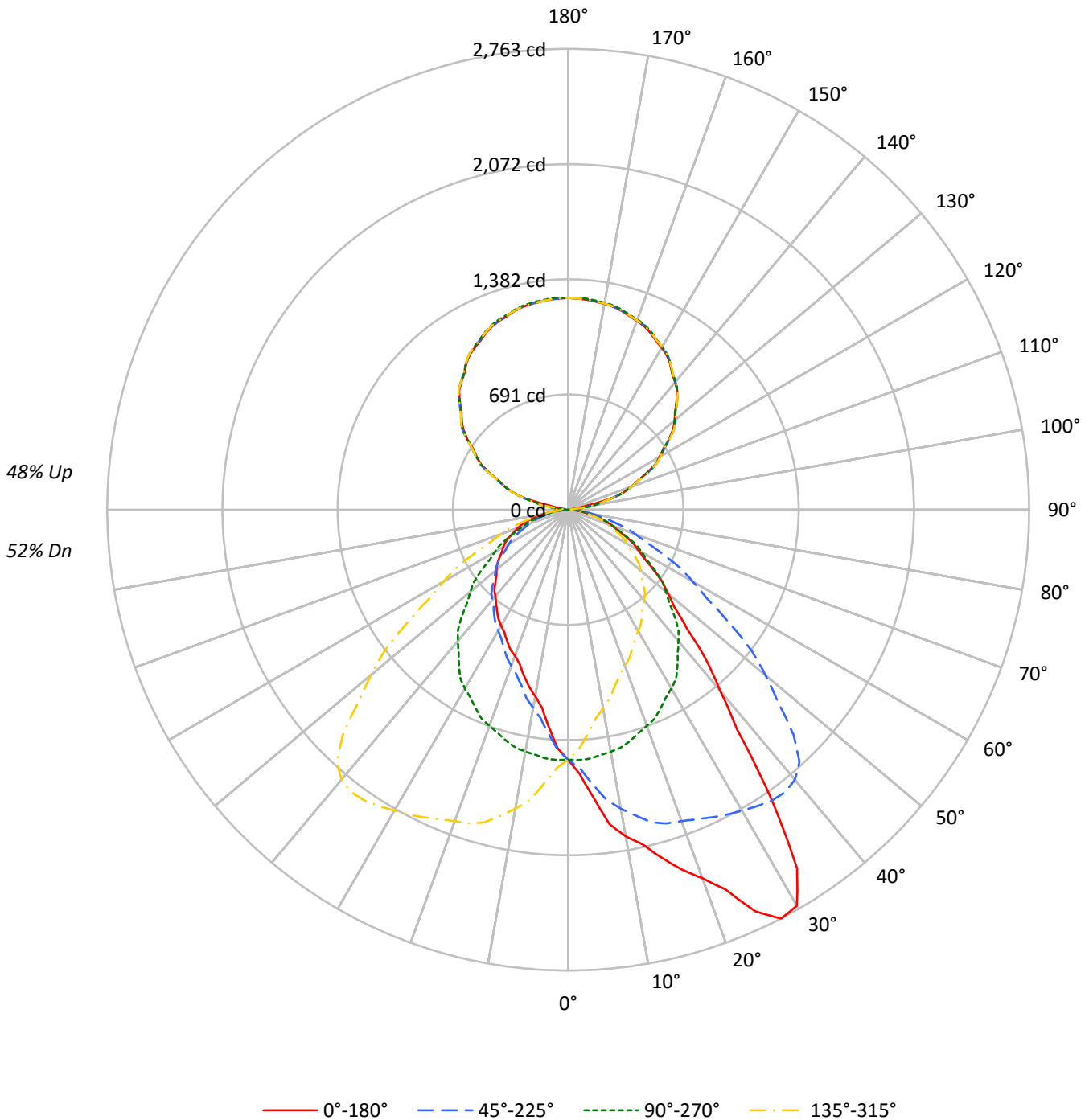
Input Watts (W): 60.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	9680	9680	9680	9680
5°	11210	9713	8504	9713
10°	13042	9663	7451	9663
15°	14437	9591	6873	9591
20°	16160	9479	6410	9479
25°	18932	9352	6183	9352
30°	20448	9228	5988	9228
35°	16812	8993	5858	8993
40°	11950	8667	5718	8667
45°	9180	8227	5636	8227
50°	7837	7683	5626	7683
55°	6977	7149	5674	7149
60°	6294	6566	5818	6566
65°	5813	5978	5969	5978
70°	5285	5370	6056	5370
75°	4666	4729	5999	4729
80°	3927	3857	5490	3857
85°	3105	2779	4431	2779



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.3	1.8
10°-20°	429.6	5.3
20°-30°	697.6	8.6
30°-40°	850.9	10.5
40°-50°	774.1	9.5
50°-60°	616.6	7.6
60°-70°	429.5	5.3
70°-80°	229.0	2.8
80°-90°	60.4	0.7
90°-100°	46.1	0.6
100°-110°	284.3	3.5
110°-120°	515.7	6.3
120°-130°	661.8	8.1
130°-140°	711.8	8.8
140°-150°	668.2	8.2
150°-160°	540.5	6.6
160°-170°	349.6	4.3
170°-180°	120.6	1.5
0°-30°	1271.5	15.6
0°-40°	2122.4	26.1
0°-60°	3513.1	43.2
0°-90°	4232.0	52.1
90°-120°	846.1	10.4
90°-150°	2887.9	35.5
90°-180°	3899.0	48.0
0°-180°	8130.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1499	1499	1499	1499	1499	
5°	1729	1498	1312	1498	1729	174
15°	2159	1434	1028	1434	2159	618
25°	2657	1312	868	1312	2657	1213
35°	2132	1141	743	1141	2132	1305
45°	1005	901	617	901	1005	804
55°	620	635	504	635	620	558
65°	380	391	391	391	380	378
75°	187	190	240	190	187	201
85°	42	38	60	38	42	49
90°	23	1	23	1	23	11
95°	20	54	20	54	20	16
105°	280	277	280	277	280	253
115°	516	520	516	520	516	512
125°	739	739	739	739	739	657
135°	918	921	918	921	918	708
145°	1065	1068	1065	1068	1065	665
155°	1168	1176	1168	1176	1168	538
165°	1235	1241	1235	1241	1235	348
175°	1264	1270	1264	1270	1264	120
180°	1270	1270	1270	1270	1270	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1585.4	1583.3	1581.3	1577.2	1580.3	1571.6	1567.5	1560.4	1551.7	1548.7	1545.1
5°	1729.1	1732.3	1735.5	1722.1	1723.3	1714.5	1694.1	1677.5	1664.2	1647.0	1634.9
7.5°	1902.1	1894.6	1894.0	1885.4	1870.5	1858.5	1837.1	1809.9	1783.6	1753.5	1728.7
10°	1988.7	1989.3	1983.6	1973.4	1957.5	1946.1	1918.1	1891.3	1858.9	1820.7	1793.4
12.5°	2053.8	2056.4	2049.3	2035.5	2027.7	2002.1	1980.2	1948.3	1909.8	1879.2	1837.7
15°	2159.2	2152.2	2147.1	2129.9	2116.6	2089.8	2054.8	2021.8	1979.7	1941.0	1902.1
17.5°	2260.7	2266.2	2256.7	2241.1	2199.6	2168.4	2121.5	2076.2	2023.9	1971.9	1925.5
20°	2351.3	2356.4	2341.7	2314.4	2264.7	2233.6	2171.9	2113.4	2053.0	1986.1	1935.2
22.5°	2464.3	2460.2	2440.4	2398.9	2355.9	2298.2	2231.5	2160.2	2084.4	2009.0	1941.4
25°	2656.7	2629.9	2617.8	2566.4	2509.7	2425.1	2333.5	2229.1	2135.0	2035.1	1948.6
27.5°	2763.3	2754.9	2741.4	2705.5	2646.0	2555.5	2447.5	2320.4	2187.5	2061.4	1948.2
30°	2741.9	2743.2	2744.4	2733.0	2694.8	2626.8	2519.2	2382.5	2224.7	2082.8	1951.7
32.5°	2552.6	2575.7	2597.8	2624.0	2634.8	2621.7	2554.4	2430.8	2268.4	2107.2	1949.7
35°	2132.4	2139.5	2211.3	2282.6	2379.3	2454.4	2504.6	2449.9	2313.1	2128.0	1947.3
37.5°	1662.7	1697.0	1746.8	1827.3	1966.9	2091.9	2252.6	2326.5	2282.4	2134.8	1942.9
40°	1417.4	1449.2	1481.7	1563.7	1681.4	1832.8	2015.3	2171.2	2207.5	2113.4	1927.6
42.5°	1228.0	1253.3	1289.3	1350.9	1449.3	1583.5	1757.8	1961.5	2086.9	2051.3	1895.5
45°	1005.1	1021.1	1049.0	1098.1	1169.3	1274.2	1428.2	1650.9	1844.9	1909.1	1819.5
47.5°	860.4	860.3	882.0	915.9	967.2	1056.4	1170.3	1344.7	1552.0	1705.3	1698.2
50°	780.0	776.7	793.9	823.2	863.9	923.1	1031.9	1171.2	1370.3	1544.0	1592.3
52.5°	710.8	711.1	721.7	743.3	777.4	827.9	909.2	1034.8	1204.9	1383.2	1474.2
55°	619.6	617.1	629.1	643.9	668.6	701.7	760.3	856.3	994.3	1169.9	1288.3
57.5°	536.1	543.2	548.0	558.2	578.8	601.0	650.3	720.8	830.3	981.0	1106.1
60°	487.3	494.3	498.1	508.3	524.8	543.9	582.1	639.3	731.6	861.4	985.4
62.5°	443.6	449.0	450.3	459.4	473.0	491.5	521.5	569.7	642.5	756.0	877.5
65°	380.4	380.4	383.0	392.5	398.9	415.4	438.3	473.3	531.9	620.3	724.0
67.5°	319.6	322.6	322.1	326.2	332.1	345.0	361.4	390.2	433.6	498.1	581.1
70°	279.9	282.5	281.8	285.0	291.3	299.6	313.0	340.4	371.6	426.9	498.1
72.5°	244.3	245.3	243.6	247.9	251.7	258.9	273.8	288.4	317.5	364.3	422.8
75°	187.0	188.3	189.5	192.1	196.0	199.7	207.4	222.1	241.1	276.1	313.7
77.5°	140.3	137.8	140.8	140.4	142.6	145.5	152.3	160.0	175.7	197.8	226.9
80°	105.6	106.2	106.2	106.9	110.1	112.0	117.7	123.4	135.5	152.0	172.4
82.5°	77.1	78.8	77.8	78.9	81.5	82.9	86.1	90.9	97.8	110.8	125.5
85°	41.9	38.8	40.1	41.4	41.4	41.9	44.5	46.5	50.2	55.3	61.1
87.5°	16.8	17.6	18.0	17.9	18.3	18.1	19.9	19.7	21.0	22.3	24.1
90°	22.6	22.0	21.3	20.7	20.1	19.2	18.2	17.2	16.1	15.1	13.6
92.5°	21.1	20.8	20.5	20.2	19.9	19.2	18.2	17.2	16.1	15.1	13.8
95°	19.8	19.8	19.8	19.8	19.8	19.2	18.2	17.2	16.1	15.1	23.0
97.5°	19.8	19.8	19.8	19.8	19.8	22.7	28.7	34.5	40.4	46.3	62.0
100°	19.8	20.6	21.4	22.2	23.1	39.1	70.3	101.4	132.6	163.7	162.9
102.5°	118.4	132.6	146.8	161.1	175.3	185.3	191.2	197.1	203.0	209.0	208.4
105°	279.5	279.7	279.9	280.1	280.3	280.4	280.4	280.4	280.4	280.4	280.4
107.5°	352.3	353.0	353.6	354.2	354.9	355.2	355.2	355.1	355.1	355.0	354.6
110°	402.7	402.6	402.4	402.2	402.0	402.2	402.7	403.4	404.1	404.6	404.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	448.0	448.3	448.6	448.8	449.1	449.7	450.4	451.3	452.0	452.9	452.6
115°	515.8	517.0	518.2	519.5	520.8	521.8	522.6	523.5	524.3	525.1	524.9
117.5°	588.0	588.5	589.1	589.7	590.1	591.0	592.1	593.1	594.3	595.3	594.6
120°	632.4	633.5	634.5	635.6	636.6	637.3	637.7	638.2	638.6	639.0	638.4
122.5°	674.6	675.8	677.0	678.3	679.4	680.2	680.7	681.1	681.5	681.9	681.6
125°	738.8	739.4	740.0	740.6	741.3	742.0	742.8	743.7	744.5	745.4	745.4
127.5°	792.8	794.4	795.9	797.4	799.0	799.9	800.4	800.9	801.3	801.8	801.9
130°	831.9	833.0	834.1	835.1	836.1	837.0	837.5	838.2	838.9	839.4	839.2
132.5°	868.1	869.1	870.2	871.2	872.2	872.8	873.0	873.1	873.2	873.4	873.8
135°	917.6	918.8	920.1	921.3	922.6	923.4	923.9	924.3	924.6	925.1	925.5
137.5°	967.2	968.4	969.4	970.5	971.6	972.1	972.0	971.9	971.9	971.8	972.1
140°	996.6	997.9	999.1	1000.4	1001.6	1002.0	1001.6	1001.3	1000.8	1000.4	1000.6
142.5°	1024.4	1025.8	1027.0	1028.2	1029.5	1030.1	1030.0	1029.9	1029.8	1029.7	1029.4
145°	1065.4	1066.6	1067.8	1069.1	1070.4	1070.8	1070.6	1070.4	1070.3	1070.1	1070.1
147.5°	1099.0	1100.5	1102.0	1103.5	1105.0	1105.7	1105.4	1105.1	1104.9	1104.7	1104.4
150°	1120.9	1122.5	1124.2	1125.9	1127.6	1128.1	1127.8	1127.4	1126.9	1126.5	1126.1
152.5°	1141.1	1142.6	1144.2	1145.7	1147.2	1147.7	1147.4	1146.9	1146.5	1146.0	1145.7
155°	1167.9	1169.6	1171.2	1172.9	1174.6	1175.2	1174.5	1173.8	1173.3	1172.6	1172.1
157.5°	1190.3	1191.9	1193.6	1195.3	1197.0	1197.5	1196.8	1196.2	1195.5	1194.9	1194.8
160°	1204.6	1206.3	1208.0	1209.7	1211.3	1211.7	1210.9	1210.0	1209.2	1208.3	1208.2
162.5°	1217.4	1219.3	1221.1	1222.9	1224.7	1225.1	1223.9	1222.8	1221.6	1220.4	1220.2
165°	1234.7	1236.4	1238.0	1239.7	1241.4	1241.6	1240.4	1239.1	1237.8	1236.6	1236.4
167.5°	1246.8	1248.7	1250.6	1252.5	1254.3	1254.5	1253.0	1251.5	1250.0	1248.5	1248.2
170°	1253.6	1255.5	1257.4	1259.1	1261.0	1261.2	1259.5	1257.8	1256.1	1254.5	1254.2
172.5°	1258.1	1259.9	1261.8	1263.7	1265.6	1265.7	1264.2	1262.7	1261.2	1259.7	1259.3
175°	1263.9	1265.7	1267.6	1269.5	1271.4	1271.5	1269.9	1268.2	1266.5	1264.8	1264.6
177.5°	1267.2	1268.7	1270.0	1271.3	1272.6	1272.7	1271.6	1270.4	1269.2	1268.0	1267.9
180°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1542.1	1538.5	1534.5	1527.3	1518.6	1514.1	1506.9	1502.4	1493.2	1485.5	1477.4
5°	1620.3	1603.8	1588.6	1568.8	1547.2	1533.1	1516.6	1498.2	1479.1	1459.3	1437.8
7.5°	1701.4	1672.1	1640.3	1606.1	1572.6	1541.8	1512.4	1483.6	1456.6	1424.0	1396.4
10°	1755.9	1718.9	1679.5	1633.0	1587.9	1548.4	1508.4	1473.4	1437.8	1399.6	1365.8
12.5°	1810.2	1761.1	1705.4	1654.4	1600.1	1552.5	1505.3	1460.7	1415.9	1373.7	1334.3
15°	1848.7	1805.4	1753.9	1681.4	1620.3	1554.8	1492.4	1434.5	1380.4	1333.4	1283.8
17.5°	1874.1	1818.3	1762.9	1693.4	1613.4	1540.0	1469.4	1403.2	1342.2	1282.5	1234.6
20°	1878.6	1821.4	1763.5	1695.4	1613.4	1529.4	1458.8	1379.2	1313.7	1252.0	1193.4
22.5°	1877.1	1812.2	1749.2	1679.1	1599.1	1521.7	1436.3	1355.3	1284.2	1223.5	1162.4
25°	1862.7	1793.4	1714.5	1643.9	1565.0	1482.9	1396.4	1312.4	1239.9	1170.5	1110.1
27.5°	1850.8	1760.8	1671.5	1589.1	1513.0	1437.8	1354.9	1268.9	1188.5	1118.2	1061.3
30°	1836.0	1737.4	1636.8	1551.0	1472.7	1399.6	1321.4	1237.4	1153.4	1084.7	1023.6
32.5°	1822.8	1707.9	1601.8	1508.3	1425.4	1354.2	1282.1	1202.2	1119.7	1050.1	989.0
35°	1797.1	1664.2	1542.8	1437.1	1348.7	1275.5	1215.1	1140.7	1065.0	997.5	939.0
37.5°	1764.7	1606.9	1476.6	1365.8	1268.9	1191.8	1135.6	1078.5	1005.8	940.8	887.9
40°	1739.3	1566.2	1428.2	1314.9	1214.5	1134.3	1082.1	1028.0	967.6	907.2	851.2
42.5°	1707.2	1529.7	1379.3	1257.4	1157.9	1079.9	1025.1	979.2	925.9	869.5	817.6
45°	1648.3	1463.2	1300.3	1169.3	1068.7	991.7	935.2	900.8	860.7	807.3	763.4
47.5°	1561.7	1383.4	1214.9	1079.7	976.0	904.7	851.6	818.6	790.4	750.6	710.9
50°	1484.8	1323.9	1153.4	1019.2	915.5	843.6	794.6	764.7	740.5	709.9	676.3
52.5°	1398.8	1249.1	1092.8	960.1	857.4	786.6	738.6	712.3	692.1	670.2	637.1
55°	1262.2	1134.9	989.9	863.9	769.1	699.7	657.8	634.9	618.4	601.8	581.5
57.5°	1111.6	1012.1	883.6	768.5	681.2	618.1	578.9	556.7	543.8	535.3	523.3
60°	1005.8	920.6	809.8	704.8	619.6	563.6	525.5	508.3	497.5	490.5	481.5
62.5°	907.6	837.5	735.0	639.2	564.7	511.7	477.7	461.0	450.6	447.2	439.9
65°	762.8	708.7	624.1	544.6	481.0	435.7	407.2	391.2	384.8	381.1	381.7
67.5°	620.1	587.2	519.2	451.4	400.7	362.8	339.9	327.6	324.4	319.3	319.2
70°	533.1	508.3	451.0	391.9	346.7	317.4	297.1	284.4	281.2	278.6	278.1
72.5°	456.3	434.5	384.8	337.4	296.8	271.2	254.3	246.7	241.5	240.0	239.9
75°	342.9	330.8	291.3	253.8	225.8	208.0	196.6	189.5	185.8	185.1	185.8
77.5°	243.7	233.2	208.1	181.5	163.9	150.4	140.7	138.3	133.9	134.1	133.5
80°	183.2	176.3	160.3	139.3	124.7	113.2	108.1	103.7	102.5	100.5	102.5
82.5°	132.8	125.4	114.5	101.1	89.1	82.2	77.1	75.7	74.9	74.1	74.5
85°	65.5	66.2	59.8	49.6	44.5	40.7	37.5	37.5	36.9	36.3	36.9
87.5°	24.8	23.5	21.2	19.3	16.5	14.6	13.8	13.9	12.7	12.5	13.4
90°	12.2	10.7	9.2	7.6	5.9	4.2	2.6	0.9	2.6	4.2	5.9
92.5°	12.4	11.1	9.9	9.8	10.9	12.2	13.3	14.5	13.3	12.2	10.9
95°	30.9	38.9	46.8	51.2	51.7	52.4	53.0	53.6	53.0	52.4	51.7
97.5°	77.8	93.5	109.2	116.5	115.4	114.2	113.1	112.0	113.1	114.2	115.4
100°	162.1	161.3	160.4	159.7	159.0	158.4	157.8	157.1	157.8	158.4	159.0
102.5°	207.9	207.5	206.9	206.2	205.5	204.7	203.9	203.1	203.9	204.7	205.5
105°	280.4	280.4	280.4	280.0	279.2	278.3	277.5	276.6	277.5	278.3	279.2
107.5°	354.1	353.7	353.3	353.1	353.1	353.1	353.1	353.1	353.1	353.1	353.1
110°	403.9	403.4	403.0	402.7	402.7	402.7	402.7	402.7	402.7	402.7	402.7





TEST NUMBER: P333277-830

CATALOG NUMBER: S125DIP-S1090D1035U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	452.3	452.1	451.9	451.5	451.0	450.4	450.0	449.5	450.0	450.4	451.0
115°	524.7	524.5	524.3	523.7	522.6	521.6	520.6	519.5	520.6	521.6	522.6
117.5°	593.7	593.0	592.2	591.8	591.8	591.8	591.9	591.9	591.9	591.8	591.8
120°	637.7	637.2	636.5	636.3	636.5	636.7	636.9	637.2	636.9	636.7	636.5
122.5°	681.4	681.1	680.7	680.2	679.4	678.6	677.8	677.0	677.8	678.6	679.4
125°	745.4	745.4	745.4	744.6	743.2	741.7	740.2	738.8	740.2	741.7	743.2
127.5°	802.1	802.2	802.3	801.8	800.8	799.7	798.7	797.7	798.7	799.7	800.8
130°	839.1	838.9	838.6	838.0	837.0	835.9	834.9	833.8	834.9	835.9	837.0
132.5°	874.3	874.7	875.2	874.8	873.5	872.4	871.2	870.0	871.2	872.4	873.5
135°	926.0	926.3	926.8	926.3	925.1	923.9	922.6	921.3	922.6	923.9	925.1
137.5°	972.5	972.9	973.3	972.9	971.9	970.7	969.7	968.6	969.7	970.7	971.9
140°	1000.8	1001.0	1001.3	1001.1	1000.7	1000.3	999.8	999.5	999.8	1000.3	1000.7
142.5°	1029.2	1028.9	1028.6	1028.3	1028.0	1027.8	1027.6	1027.3	1027.6	1027.8	1028.0
145°	1070.1	1070.1	1070.1	1069.8	1069.4	1068.9	1068.6	1068.2	1068.6	1068.9	1069.4
147.5°	1104.2	1103.9	1103.6	1103.5	1103.6	1103.7	1103.8	1103.9	1103.8	1103.7	1103.6
150°	1125.7	1125.2	1124.8	1124.8	1125.2	1125.7	1126.1	1126.5	1126.1	1125.7	1125.2
152.5°	1145.2	1144.8	1144.4	1144.6	1145.6	1146.5	1147.5	1148.3	1147.5	1146.5	1145.6
155°	1171.8	1171.4	1170.9	1171.4	1172.6	1173.8	1175.2	1176.4	1175.2	1173.8	1172.6
157.5°	1194.8	1194.7	1194.7	1195.0	1195.8	1196.6	1197.2	1198.0	1197.2	1196.6	1195.8
160°	1208.0	1207.8	1207.5	1208.1	1209.3	1210.6	1211.8	1213.1	1211.8	1210.6	1209.3
162.5°	1220.0	1219.7	1219.6	1220.1	1221.3	1222.6	1223.9	1225.1	1223.9	1222.6	1221.3
165°	1236.1	1236.0	1235.8	1236.3	1237.6	1238.8	1240.0	1241.3	1240.0	1238.8	1237.6
167.5°	1248.0	1247.8	1247.6	1248.2	1249.4	1250.8	1252.1	1253.4	1252.1	1250.8	1249.4
170°	1254.1	1253.9	1253.7	1254.2	1255.7	1257.2	1258.7	1260.1	1258.7	1257.2	1255.7
172.5°	1259.0	1258.6	1258.3	1258.8	1260.3	1261.7	1263.2	1264.6	1263.2	1261.7	1260.3
175°	1264.4	1264.2	1264.0	1264.5	1265.7	1267.1	1268.3	1269.5	1268.3	1267.1	1265.7
177.5°	1267.7	1267.5	1267.3	1267.8	1268.8	1269.8	1270.8	1271.8	1270.8	1269.8	1268.8
180°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5



TEST NUMBER: P333277-830

CATALOG NUMBER: S125DIP-S1090D1035U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1472.8	1467.3	1462.6	1452.5	1446.9	1439.3	1433.1	1439.7	1432.7	1435.7	1431.2
5°	1426.9	1409.1	1396.4	1377.9	1362.1	1347.4	1336.6	1334.6	1329.6	1327.0	1319.4
7.5°	1371.7	1349.4	1327.6	1303.3	1283.0	1262.3	1249.1	1238.1	1230.9	1221.3	1214.8
10°	1339.2	1309.2	1283.8	1254.5	1229.1	1206.8	1189.0	1180.1	1171.9	1159.7	1155.3
12.5°	1298.9	1268.0	1237.0	1205.7	1181.2	1156.4	1141.1	1127.7	1121.9	1108.3	1106.9
15°	1250.8	1204.3	1173.7	1141.9	1108.2	1087.9	1075.2	1060.5	1054.1	1044.6	1037.6
17.5°	1193.2	1151.7	1113.5	1080.6	1051.7	1034.5	1018.8	1008.7	997.8	991.6	980.1
20°	1151.5	1112.0	1073.8	1038.9	1016.6	996.8	984.1	974.6	963.2	960.0	948.6
22.5°	1116.3	1072.8	1036.2	1006.8	982.5	960.3	946.5	940.0	932.1	922.3	920.0
25°	1059.2	1014.1	982.9	953.7	932.0	911.6	902.1	893.8	886.2	879.2	876.7
27.5°	1009.8	969.5	932.5	906.1	887.2	868.6	860.3	850.2	844.6	839.0	832.1
30°	975.2	933.9	901.4	876.0	855.6	839.1	830.2	823.2	818.1	813.0	809.2
32.5°	939.6	901.4	869.9	845.0	824.6	812.1	804.3	799.3	793.7	787.6	782.8
35°	892.6	850.6	820.0	798.4	782.5	773.0	764.0	759.6	753.2	753.2	748.1
37.5°	839.5	803.2	776.3	756.6	742.3	733.8	724.1	721.0	717.0	714.3	712.5
40°	807.9	774.2	748.8	729.1	713.8	706.8	699.2	694.1	691.5	688.3	687.0
42.5°	775.3	743.2	718.8	700.6	687.3	681.4	674.2	670.6	665.5	661.4	660.6
45°	725.9	694.7	672.4	657.8	646.3	639.3	634.9	627.3	624.7	619.6	619.0
47.5°	678.9	649.0	627.2	615.2	605.1	599.4	592.4	584.8	581.8	579.3	579.0
50°	643.9	616.4	596.1	584.7	575.1	566.8	559.9	554.8	552.8	552.8	554.1
52.5°	608.2	584.8	567.6	553.6	544.6	535.7	529.3	526.2	523.3	526.4	528.7
55°	556.0	532.4	519.7	506.4	497.5	487.3	484.1	482.9	481.0	486.1	488.6
57.5°	500.8	484.3	469.4	456.1	448.1	442.2	437.9	437.2	440.7	443.2	451.4
60°	465.7	446.6	433.2	423.0	413.5	409.7	408.4	407.2	409.7	416.7	427.5
62.5°	427.0	411.5	397.1	389.5	382.5	376.1	375.9	376.6	381.7	389.7	400.5
65°	370.2	356.8	347.3	338.5	332.7	328.9	330.2	332.7	338.5	349.2	361.4
67.5°	312.6	303.5	294.9	287.7	282.2	282.2	283.5	287.3	294.1	306.5	317.5
70°	275.5	265.3	258.3	255.1	250.6	248.1	251.9	258.3	264.0	275.5	285.0
72.5°	238.3	229.7	224.2	222.1	220.1	218.1	219.3	226.2	233.9	245.4	256.5
75°	183.2	180.0	176.3	173.7	171.7	173.1	174.3	180.7	187.0	199.2	211.9
77.5°	133.7	130.4	128.1	127.5	126.5	127.1	130.6	135.3	141.6	150.4	160.0
80°	101.1	99.9	98.6	97.9	97.9	98.6	103.7	106.9	112.6	120.8	128.5
82.5°	73.7	72.9	72.7	72.5	73.0	73.1	76.3	80.4	85.1	91.3	97.9
85°	38.8	37.5	39.4	40.1	38.8	40.7	41.9	44.5	46.5	49.6	52.8
87.5°	14.2	15.6	15.4	16.2	16.5	17.8	17.4	19.7	20.9	22.1	21.9
90°	7.6	9.2	10.7	12.2	13.6	15.1	16.1	17.2	18.2	19.2	20.1
92.5°	9.8	9.9	11.1	12.4	13.8	15.1	16.1	17.2	18.2	19.2	19.9
95°	51.2	46.8	38.9	30.9	23.0	15.1	16.1	17.2	18.2	19.2	19.8
97.5°	116.5	109.2	93.5	77.8	62.0	46.3	40.4	34.5	28.7	22.7	19.8
100°	159.7	160.4	161.3	162.1	162.9	163.7	132.6	101.4	70.3	39.1	23.1
102.5°	206.2	206.9	207.5	207.9	208.4	209.0	203.0	197.1	191.2	185.3	175.3
105°	280.0	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.4	280.3
107.5°	353.1	353.3	353.7	354.1	354.6	355.0	355.1	355.1	355.2	355.2	354.9
110°	402.7	403.0	403.4	403.9	404.3	404.6	404.1	403.4	402.7	402.2	402.0



TEST NUMBER: P333277-830

CATALOG NUMBER: S125DIP-S1090D1035U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	451.5	451.9	452.1	452.3	452.6	452.9	452.0	451.3	450.4	449.7	449.1
115°	523.7	524.3	524.5	524.7	524.9	525.1	524.3	523.5	522.6	521.8	520.8
117.5°	591.8	592.2	593.0	593.7	594.6	595.3	594.3	593.1	592.1	591.0	590.1
120°	636.3	636.5	637.2	637.7	638.4	639.0	638.6	638.2	637.7	637.3	636.6
122.5°	680.2	680.7	681.1	681.4	681.6	681.9	681.5	681.1	680.7	680.2	679.4
125°	744.6	745.4	745.4	745.4	745.4	745.4	744.5	743.7	742.8	742.0	741.3
127.5°	801.8	802.3	802.2	802.1	801.9	801.8	801.3	800.9	800.4	799.9	799.0
130°	838.0	838.6	838.9	839.1	839.2	839.4	838.9	838.2	837.5	837.0	836.1
132.5°	874.8	875.2	874.7	874.3	873.8	873.4	873.2	873.1	873.0	872.8	872.2
135°	926.3	926.8	926.3	926.0	925.5	925.1	924.6	924.3	923.9	923.4	922.6
137.5°	972.9	973.3	972.9	972.5	972.1	971.8	971.9	971.9	972.0	972.1	971.6
140°	1001.1	1001.3	1001.0	1000.8	1000.6	1000.4	1000.8	1001.3	1001.6	1002.0	1001.6
142.5°	1028.3	1028.6	1028.9	1029.2	1029.4	1029.7	1029.8	1029.9	1030.0	1030.1	1029.5
145°	1069.8	1070.1	1070.1	1070.1	1070.1	1070.1	1070.3	1070.4	1070.6	1070.8	1070.4
147.5°	1103.5	1103.6	1103.9	1104.2	1104.4	1104.7	1104.9	1105.1	1105.4	1105.7	1105.0
150°	1124.8	1124.8	1125.2	1125.7	1126.1	1126.5	1126.9	1127.4	1127.8	1128.1	1127.6
152.5°	1144.6	1144.4	1144.8	1145.2	1145.7	1146.0	1146.5	1146.9	1147.4	1147.7	1147.2
155°	1171.4	1170.9	1171.4	1171.8	1172.1	1172.6	1173.3	1173.8	1174.5	1175.2	1174.6
157.5°	1195.0	1194.7	1194.7	1194.8	1194.8	1194.9	1195.5	1196.2	1196.8	1197.5	1197.0
160°	1208.1	1207.5	1207.8	1208.0	1208.2	1208.3	1209.2	1210.0	1210.9	1211.7	1211.3
162.5°	1220.1	1219.6	1219.7	1220.0	1220.2	1220.4	1221.6	1222.8	1223.9	1225.1	1224.7
165°	1236.3	1235.8	1236.0	1236.1	1236.4	1236.6	1237.8	1239.1	1240.4	1241.6	1241.4
167.5°	1248.2	1247.6	1247.8	1248.0	1248.2	1248.5	1250.0	1251.5	1253.0	1254.5	1254.3
170°	1254.2	1253.7	1253.9	1254.1	1254.2	1254.5	1256.1	1257.8	1259.5	1261.2	1261.0
172.5°	1258.8	1258.3	1258.6	1259.0	1259.3	1259.7	1261.2	1262.7	1264.2	1265.7	1265.6
175°	1264.5	1264.0	1264.2	1264.4	1264.6	1264.8	1266.5	1268.2	1269.9	1271.5	1271.4
177.5°	1267.8	1267.3	1267.5	1267.7	1267.9	1268.0	1269.2	1270.4	1271.6	1272.7	1272.6
180°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5



TEST NUMBER: P333277-830

CATALOG NUMBER: S125DIP-S1090D1035U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1428.0	1431.6	1428.6	1432.7	1428.6	1431.6	1428.0	1431.2	1435.7	1432.7	1439.7
5°	1316.3	1310.5	1314.3	1311.7	1314.3	1310.5	1316.3	1319.4	1327.0	1329.6	1334.6
7.5°	1213.0	1207.5	1201.2	1198.3	1201.2	1207.5	1213.0	1214.8	1221.3	1230.9	1238.1
10°	1148.3	1141.3	1140.7	1136.2	1140.7	1141.3	1148.3	1155.3	1159.7	1171.9	1180.1
12.5°	1101.0	1094.5	1087.2	1085.3	1087.2	1094.5	1101.0	1106.9	1108.3	1121.9	1127.7
15°	1033.8	1028.7	1024.3	1028.0	1024.3	1028.7	1033.8	1037.6	1044.6	1054.1	1060.5
17.5°	977.9	973.7	973.0	968.3	973.0	973.7	977.9	980.1	991.6	997.8	1008.7
20°	942.8	939.6	940.9	932.6	940.9	939.6	942.8	948.6	960.0	963.2	974.6
22.5°	914.8	908.6	907.9	906.2	907.9	908.6	914.8	920.0	922.3	932.1	940.0
25°	870.9	867.7	864.6	867.7	864.6	867.7	870.9	876.7	879.2	886.2	893.8
27.5°	832.6	828.8	827.9	828.3	827.9	828.8	832.6	832.1	839.0	844.6	850.2
30°	809.2	802.9	803.5	802.9	803.5	802.9	809.2	809.2	813.0	818.1	823.2
32.5°	783.7	779.4	778.5	777.4	778.5	779.4	783.7	782.8	787.6	793.7	799.3
35°	746.2	746.2	743.0	743.0	743.0	746.2	746.2	748.1	753.2	753.2	759.6
37.5°	711.0	710.3	708.4	708.7	708.4	710.3	711.0	712.5	714.3	717.0	721.0
40°	684.5	683.9	681.9	678.2	681.9	683.9	684.5	687.0	688.3	691.5	694.1
42.5°	659.0	657.0	656.0	654.8	656.0	657.0	659.0	660.6	661.4	665.5	670.6
45°	619.0	619.0	617.7	617.1	617.7	619.0	619.0	619.0	619.6	624.7	627.3
47.5°	580.0	581.2	583.6	583.2	583.6	581.2	580.0	579.0	579.3	581.8	584.8
50°	556.7	557.3	559.2	559.9	559.2	557.3	556.7	554.1	552.8	552.8	554.8
52.5°	530.7	534.4	536.8	536.4	536.8	534.4	530.7	528.7	526.4	523.3	526.2
55°	494.3	498.8	503.2	503.9	503.2	498.8	494.3	488.6	486.1	481.0	482.9
57.5°	458.3	464.5	469.2	470.8	469.2	464.5	458.3	451.4	443.2	440.7	437.2
60°	433.9	442.1	447.9	450.4	447.9	442.1	433.9	427.5	416.7	409.7	407.2
62.5°	410.5	419.7	425.5	425.9	425.5	419.7	410.5	400.5	389.7	381.7	376.6
65°	372.1	381.7	386.8	390.6	386.8	381.7	372.1	361.4	349.2	338.5	332.7
67.5°	330.9	340.4	346.1	349.1	346.1	340.4	330.9	317.5	306.5	294.1	287.3
70°	301.0	310.5	318.1	320.7	318.1	310.5	301.0	285.0	275.5	264.0	258.3
72.5°	271.4	279.9	286.1	289.1	286.1	279.9	271.4	256.5	245.4	233.9	226.2
75°	220.1	231.6	237.3	240.4	237.3	231.6	220.1	211.9	199.2	187.0	180.7
77.5°	169.8	180.1	183.6	185.2	183.6	180.1	169.8	160.0	150.4	141.6	135.3
80°	136.1	142.5	146.9	147.6	146.9	142.5	136.1	128.5	120.8	112.6	106.9
82.5°	104.6	109.9	111.3	113.0	111.3	109.9	104.6	97.9	91.3	85.1	80.4
85°	57.2	59.8	60.4	59.8	60.4	59.8	57.2	52.8	49.6	46.5	44.5
87.5°	23.0	22.6	22.7	23.8	22.7	22.6	23.0	21.9	22.1	20.9	19.7
90°	20.7	21.3	22.0	22.6	22.0	21.3	20.7	20.1	19.2	18.2	17.2
92.5°	20.2	20.5	20.8	21.1	20.8	20.5	20.2	19.9	19.2	18.2	17.2
95°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.2	18.2	17.2
97.5°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	22.7	28.7	34.5
100°	22.2	21.4	20.6	19.8	20.6	21.4	22.2	23.1	39.1	70.3	101.4
102.5°	161.1	146.8	132.6	118.4	132.6	146.8	161.1	175.3	185.3	191.2	197.1
105°	280.1	279.9	279.7	279.5	279.7	279.9	280.1	280.3	280.4	280.4	280.4
107.5°	354.2	353.6	353.0	352.3	353.0	353.6	354.2	354.9	355.2	355.2	355.1
110°	402.2	402.4	402.6	402.7	402.6	402.4	402.2	402.0	402.2	402.7	403.4



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	448.8	448.6	448.3	448.0	448.3	448.6	448.8	449.1	449.7	450.4	451.3
115°	519.5	518.2	517.0	515.8	517.0	518.2	519.5	520.8	521.8	522.6	523.5
117.5°	589.7	589.1	588.5	588.0	588.5	589.1	589.7	590.1	591.0	592.1	593.1
120°	635.6	634.5	633.5	632.4	633.5	634.5	635.6	636.6	637.3	637.7	638.2
122.5°	678.3	677.0	675.8	674.6	675.8	677.0	678.3	679.4	680.2	680.7	681.1
125°	740.6	740.0	739.4	738.8	739.4	740.0	740.6	741.3	742.0	742.8	743.7
127.5°	797.4	795.9	794.4	792.8	794.4	795.9	797.4	799.0	799.9	800.4	800.9
130°	835.1	834.1	833.0	831.9	833.0	834.1	835.1	836.1	837.0	837.5	838.2
132.5°	871.2	870.2	869.1	868.1	869.1	870.2	871.2	872.2	872.8	873.0	873.1
135°	921.3	920.1	918.8	917.6	918.8	920.1	921.3	922.6	923.4	923.9	924.3
137.5°	970.5	969.4	968.4	967.2	968.4	969.4	970.5	971.6	972.1	972.0	971.9
140°	1000.4	999.1	997.9	996.6	997.9	999.1	1000.4	1001.6	1002.0	1001.6	1001.3
142.5°	1028.2	1027.0	1025.8	1024.4	1025.8	1027.0	1028.2	1029.5	1030.1	1030.0	1029.9
145°	1069.1	1067.8	1066.6	1065.4	1066.6	1067.8	1069.1	1070.4	1070.8	1070.6	1070.4
147.5°	1103.5	1102.0	1100.5	1099.0	1100.5	1102.0	1103.5	1105.0	1105.7	1105.4	1105.1
150°	1125.9	1124.2	1122.5	1120.9	1122.5	1124.2	1125.9	1127.6	1128.1	1127.8	1127.4
152.5°	1145.7	1144.2	1142.6	1141.1	1142.6	1144.2	1145.7	1147.2	1147.7	1147.4	1146.9
155°	1172.9	1171.2	1169.6	1167.9	1169.6	1171.2	1172.9	1174.6	1175.2	1174.5	1173.8
157.5°	1195.3	1193.6	1191.9	1190.3	1191.9	1193.6	1195.3	1197.0	1197.5	1196.8	1196.2
160°	1209.7	1208.0	1206.3	1204.6	1206.3	1208.0	1209.7	1211.3	1211.7	1210.9	1210.0
162.5°	1222.9	1221.1	1219.3	1217.4	1219.3	1221.1	1222.9	1224.7	1225.1	1223.9	1222.8
165°	1239.7	1238.0	1236.4	1234.7	1236.4	1238.0	1239.7	1241.4	1241.6	1240.4	1239.1
167.5°	1252.5	1250.6	1248.7	1246.8	1248.7	1250.6	1252.5	1254.3	1254.5	1253.0	1251.5
170°	1259.1	1257.4	1255.5	1253.6	1255.5	1257.4	1259.1	1261.0	1261.2	1259.5	1257.8
172.5°	1263.7	1261.8	1259.9	1258.1	1259.9	1261.8	1263.7	1265.6	1265.7	1264.2	1262.7
175°	1269.5	1267.6	1265.7	1263.9	1265.7	1267.6	1269.5	1271.4	1271.5	1269.9	1268.2
177.5°	1271.3	1270.0	1268.7	1267.2	1268.7	1270.0	1271.3	1272.6	1272.7	1271.6	1270.4
180°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5



TEST NUMBER: P333277-830

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1433.1	1439.3	1446.9	1452.5	1462.6	1467.3	1472.8	1477.4	1485.5	1493.2	1502.4
5°	1336.6	1347.4	1362.1	1377.9	1396.4	1409.1	1426.9	1437.8	1459.3	1479.1	1498.2
7.5°	1249.1	1262.3	1283.0	1303.3	1327.6	1349.4	1371.7	1396.4	1424.0	1456.6	1483.6
10°	1189.0	1206.8	1229.1	1254.5	1283.8	1309.2	1339.2	1365.8	1399.6	1437.8	1473.4
12.5°	1141.1	1156.4	1181.2	1205.7	1237.0	1268.0	1298.9	1334.3	1373.7	1415.9	1460.7
15°	1075.2	1087.9	1108.2	1141.9	1173.7	1204.3	1250.8	1283.8	1333.4	1380.4	1434.5
17.5°	1018.8	1034.5	1051.7	1080.6	1113.5	1151.7	1193.2	1234.6	1282.5	1342.2	1403.2
20°	984.1	996.8	1016.6	1038.9	1073.8	1112.0	1151.5	1193.4	1252.0	1313.7	1379.2
22.5°	946.5	960.3	982.5	1006.8	1036.2	1072.8	1116.3	1162.4	1223.5	1284.2	1355.3
25°	902.1	911.6	932.0	953.7	982.9	1014.1	1059.2	1110.1	1170.5	1239.9	1312.4
27.5°	860.3	868.6	887.2	906.1	932.5	969.5	1009.8	1061.3	1118.2	1188.5	1268.9
30°	830.2	839.1	855.6	876.0	901.4	933.9	975.2	1023.6	1084.7	1153.4	1237.4
32.5°	804.3	812.1	824.6	845.0	869.9	901.4	939.6	989.0	1050.1	1119.7	1202.2
35°	764.0	773.0	782.5	798.4	820.0	850.6	892.6	939.0	997.5	1065.0	1140.7
37.5°	724.1	733.8	742.3	756.6	776.3	803.2	839.5	887.9	940.8	1005.8	1078.5
40°	699.2	706.8	713.8	729.1	748.8	774.2	807.9	851.2	907.2	967.6	1028.0
42.5°	674.2	681.4	687.3	700.6	718.8	743.2	775.3	817.6	869.5	925.9	979.2
45°	634.9	639.3	646.3	657.8	672.4	694.7	725.9	763.4	807.3	860.7	900.8
47.5°	592.4	599.4	605.1	615.2	627.2	649.0	678.9	710.9	750.6	790.4	818.6
50°	559.9	566.8	575.1	584.7	596.1	616.4	643.9	676.3	709.9	740.5	764.7
52.5°	529.3	535.7	544.6	553.6	567.6	584.8	608.2	637.1	670.2	692.1	712.3
55°	484.1	487.3	497.5	506.4	519.7	532.4	556.0	581.5	601.8	618.4	634.9
57.5°	437.9	442.2	448.1	456.1	469.4	484.3	500.8	523.3	535.3	543.8	556.7
60°	408.4	409.7	413.5	423.0	433.2	446.6	465.7	481.5	490.5	497.5	508.3
62.5°	375.9	376.1	382.5	389.5	397.1	411.5	427.0	439.9	447.2	450.6	461.0
65°	330.2	328.9	332.7	338.5	347.3	356.8	370.2	381.7	381.1	384.8	391.2
67.5°	283.5	282.2	282.2	287.7	294.9	303.5	312.6	319.2	319.3	324.4	327.6
70°	251.9	248.1	250.6	255.1	258.3	265.3	275.5	278.1	278.6	281.2	284.4
72.5°	219.3	218.1	220.1	222.1	224.2	229.7	238.3	239.9	240.0	241.5	246.7
75°	174.3	173.1	171.7	173.7	176.3	180.0	183.2	185.8	185.1	185.8	189.5
77.5°	130.6	127.1	126.5	127.5	128.1	130.4	133.7	133.5	134.1	133.9	138.3
80°	103.7	98.6	97.9	97.9	98.6	99.9	101.1	102.5	100.5	102.5	103.7
82.5°	76.3	73.1	73.0	72.5	72.7	72.9	73.7	74.5	74.1	74.9	75.7
85°	41.9	40.7	38.8	40.1	39.4	37.5	38.8	36.9	36.3	36.9	37.5
87.5°	17.4	17.8	16.5	16.2	15.4	15.6	14.2	13.4	12.5	12.7	13.9
90°	16.1	15.1	13.6	12.2	10.7	9.2	7.6	5.9	4.2	2.6	0.9
92.5°	16.1	15.1	13.8	12.4	11.1	9.9	9.8	10.9	12.2	13.3	14.5
95°	16.1	15.1	23.0	30.9	38.9	46.8	51.2	51.7	52.4	53.0	53.6
97.5°	40.4	46.3	62.0	77.8	93.5	109.2	116.5	115.4	114.2	113.1	112.0
100°	132.6	163.7	162.9	162.1	161.3	160.4	159.7	159.0	158.4	157.8	157.1
102.5°	203.0	209.0	208.4	207.9	207.5	206.9	206.2	205.5	204.7	203.9	203.1
105°	280.4	280.4	280.4	280.4	280.4	280.4	280.0	279.2	278.3	277.5	276.6
107.5°	355.1	355.0	354.6	354.1	353.7	353.3	353.1	353.1	353.1	353.1	353.1
110°	404.1	404.6	404.3	403.9	403.4	403.0	402.7	402.7	402.7	402.7	402.7



TEST NUMBER: P333277-830

CATALOG NUMBER: S125DIP-S1090D1035U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	452.0	452.9	452.6	452.3	452.1	451.9	451.5	451.0	450.4	450.0	449.5
115°	524.3	525.1	524.9	524.7	524.5	524.3	523.7	522.6	521.6	520.6	519.5
117.5°	594.3	595.3	594.6	593.7	593.0	592.2	591.8	591.8	591.8	591.9	591.9
120°	638.6	639.0	638.4	637.7	637.2	636.5	636.3	636.5	636.7	636.9	637.2
122.5°	681.5	681.9	681.6	681.4	681.1	680.7	680.2	679.4	678.6	677.8	677.0
125°	744.5	745.4	745.4	745.4	745.4	745.4	744.6	743.2	741.7	740.2	738.8
127.5°	801.3	801.8	801.9	802.1	802.2	802.3	801.8	800.8	799.7	798.7	797.7
130°	838.9	839.4	839.2	839.1	838.9	838.6	838.0	837.0	835.9	834.9	833.8
132.5°	873.2	873.4	873.8	874.3	874.7	875.2	874.8	873.5	872.4	871.2	870.0
135°	924.6	925.1	925.5	926.0	926.3	926.8	926.3	925.1	923.9	922.6	921.3
137.5°	971.9	971.8	972.1	972.5	972.9	973.3	972.9	971.9	970.7	969.7	968.6
140°	1000.8	1000.4	1000.6	1000.8	1001.0	1001.3	1001.1	1000.7	1000.3	999.8	999.5
142.5°	1029.8	1029.7	1029.4	1029.2	1028.9	1028.6	1028.3	1028.0	1027.8	1027.6	1027.3
145°	1070.3	1070.1	1070.1	1070.1	1070.1	1070.1	1069.8	1069.4	1068.9	1068.6	1068.2
147.5°	1104.9	1104.7	1104.4	1104.2	1103.9	1103.6	1103.5	1103.6	1103.7	1103.8	1103.9
150°	1126.9	1126.5	1126.1	1125.7	1125.2	1124.8	1124.8	1125.2	1125.7	1126.1	1126.5
152.5°	1146.5	1146.0	1145.7	1145.2	1144.8	1144.4	1144.6	1145.6	1146.5	1147.5	1148.3
155°	1173.3	1172.6	1172.1	1171.8	1171.4	1170.9	1171.4	1172.6	1173.8	1175.2	1176.4
157.5°	1195.5	1194.9	1194.8	1194.8	1194.7	1194.7	1195.0	1195.8	1196.6	1197.2	1198.0
160°	1209.2	1208.3	1208.2	1208.0	1207.8	1207.5	1208.1	1209.3	1210.6	1211.8	1213.1
162.5°	1221.6	1220.4	1220.2	1220.0	1219.7	1219.6	1220.1	1221.3	1222.6	1223.9	1225.1
165°	1237.8	1236.6	1236.4	1236.1	1236.0	1235.8	1236.3	1237.6	1238.8	1240.0	1241.3
167.5°	1250.0	1248.5	1248.2	1248.0	1247.8	1247.6	1248.2	1249.4	1250.8	1252.1	1253.4
170°	1256.1	1254.5	1254.2	1254.1	1253.9	1253.7	1254.2	1255.7	1257.2	1258.7	1260.1
172.5°	1261.2	1259.7	1259.3	1259.0	1258.6	1258.3	1258.8	1260.3	1261.7	1263.2	1264.6
175°	1266.5	1264.8	1264.6	1264.4	1264.2	1264.0	1264.5	1265.7	1267.1	1268.3	1269.5
177.5°	1269.2	1268.0	1267.9	1267.7	1267.5	1267.3	1267.8	1268.8	1269.8	1270.8	1271.8
180°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5



TEST NUMBER: P333277-830

CATALOG NUMBER: S125DIP-S1090D1035U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1506.9	1514.1	1518.6	1527.3	1534.5	1538.5	1542.1	1545.1	1548.7	1551.7	1560.4
5°	1516.6	1533.1	1547.2	1568.8	1588.6	1603.8	1620.3	1634.9	1647.0	1664.2	1677.5
7.5°	1512.4	1541.8	1572.6	1606.1	1640.3	1672.1	1701.4	1728.7	1753.5	1783.6	1809.9
10°	1508.4	1548.4	1587.9	1633.0	1679.5	1718.9	1755.9	1793.4	1820.7	1858.9	1891.3
12.5°	1505.3	1552.5	1600.1	1654.4	1705.4	1761.1	1810.2	1837.7	1879.2	1909.8	1948.3
15°	1492.4	1554.8	1620.3	1681.4	1753.9	1805.4	1848.7	1902.1	1941.0	1979.7	2021.8
17.5°	1469.4	1540.0	1613.4	1693.4	1762.9	1818.3	1874.1	1925.5	1971.9	2023.9	2076.2
20°	1458.8	1529.4	1613.4	1695.4	1763.5	1821.4	1878.6	1935.2	1986.1	2053.0	2113.4
22.5°	1436.3	1521.7	1599.1	1679.1	1749.2	1812.2	1877.1	1941.4	2009.0	2084.4	2160.2
25°	1396.4	1482.9	1565.0	1643.9	1714.5	1793.4	1862.7	1948.6	2035.1	2135.0	2229.1
27.5°	1354.9	1437.8	1513.0	1589.1	1671.5	1760.8	1850.8	1948.2	2061.4	2187.5	2320.4
30°	1321.4	1399.6	1472.7	1551.0	1636.8	1737.4	1836.0	1951.7	2082.8	2224.7	2382.5
32.5°	1282.1	1354.2	1425.4	1508.3	1601.8	1707.9	1822.8	1949.7	2107.2	2268.4	2430.8
35°	1215.1	1275.5	1348.7	1437.1	1542.8	1664.2	1797.1	1947.3	2128.0	2313.1	2449.9
37.5°	1135.6	1191.8	1268.9	1365.8	1476.6	1606.9	1764.7	1942.9	2134.8	2282.4	2326.5
40°	1082.1	1134.3	1214.5	1314.9	1428.2	1566.2	1739.3	1927.6	2113.4	2207.5	2171.2
42.5°	1025.1	1079.9	1157.9	1257.4	1379.3	1529.7	1707.2	1895.5	2051.3	2086.9	1961.5
45°	935.2	991.7	1068.7	1169.3	1300.3	1463.2	1648.3	1819.5	1909.1	1844.9	1650.9
47.5°	851.6	904.7	976.0	1079.7	1214.9	1383.4	1561.7	1698.2	1705.3	1552.0	1344.7
50°	794.6	843.6	915.5	1019.2	1153.4	1323.9	1484.8	1592.3	1544.0	1370.3	1171.2
52.5°	738.6	786.6	857.4	960.1	1092.8	1249.1	1398.8	1474.2	1383.2	1204.9	1034.8
55°	657.8	699.7	769.1	863.9	989.9	1134.9	1262.2	1288.3	1169.9	994.3	856.3
57.5°	578.9	618.1	681.2	768.5	883.6	1012.1	1111.6	1106.1	981.0	830.3	720.8
60°	525.5	563.6	619.6	704.8	809.8	920.6	1005.8	985.4	861.4	731.6	639.3
62.5°	477.7	511.7	564.7	639.2	735.0	837.5	907.6	877.5	756.0	642.5	569.7
65°	407.2	435.7	481.0	544.6	624.1	708.7	762.8	724.0	620.3	531.9	473.3
67.5°	339.9	362.8	400.7	451.4	519.2	587.2	620.1	581.1	498.1	433.6	390.2
70°	297.1	317.4	346.7	391.9	451.0	508.3	533.1	498.1	426.9	371.6	340.4
72.5°	254.3	271.2	296.8	337.4	384.8	434.5	456.3	422.8	364.3	317.5	288.4
75°	196.6	208.0	225.8	253.8	291.3	330.8	342.9	313.7	276.1	241.1	222.1
77.5°	140.7	150.4	163.9	181.5	208.1	233.2	243.7	226.9	197.8	175.7	160.0
80°	108.1	113.2	124.7	139.3	160.3	176.3	183.2	172.4	152.0	135.5	123.4
82.5°	77.1	82.2	89.1	101.1	114.5	125.4	132.8	125.5	110.8	97.8	90.9
85°	37.5	40.7	44.5	49.6	59.8	66.2	65.5	61.1	55.3	50.2	46.5
87.5°	13.8	14.6	16.5	19.3	21.2	23.5	24.8	24.1	22.3	21.0	19.7
90°	2.6	4.2	5.9	7.6	9.2	10.7	12.2	13.6	15.1	16.1	17.2
92.5°	13.3	12.2	10.9	9.8	9.9	11.1	12.4	13.8	15.1	16.1	17.2
95°	53.0	52.4	51.7	51.2	46.8	38.9	30.9	23.0	15.1	16.1	17.2
97.5°	113.1	114.2	115.4	116.5	109.2	93.5	77.8	62.0	46.3	40.4	34.5
100°	157.8	158.4	159.0	159.7	160.4	161.3	162.1	162.9	163.7	132.6	101.4
102.5°	203.9	204.7	205.5	206.2	206.9	207.5	207.9	208.4	209.0	203.0	197.1
105°	277.5	278.3	279.2	280.0	280.4	280.4	280.4	280.4	280.4	280.4	280.4
107.5°	353.1	353.1	353.1	353.1	353.3	353.7	354.1	354.6	355.0	355.1	355.1
110°	402.7	402.7	402.7	402.7	403.0	403.4	403.9	404.3	404.6	404.1	403.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	450.0	450.4	451.0	451.5	451.9	452.1	452.3	452.6	452.9	452.0	451.3
115°	520.6	521.6	522.6	523.7	524.3	524.5	524.7	524.9	525.1	524.3	523.5
117.5°	591.9	591.8	591.8	591.8	592.2	593.0	593.7	594.6	595.3	594.3	593.1
120°	636.9	636.7	636.5	636.3	636.5	637.2	637.7	638.4	639.0	638.6	638.2
122.5°	677.8	678.6	679.4	680.2	680.7	681.1	681.4	681.6	681.9	681.5	681.1
125°	740.2	741.7	743.2	744.6	745.4	745.4	745.4	745.4	745.4	744.5	743.7
127.5°	798.7	799.7	800.8	801.8	802.3	802.2	802.1	801.9	801.8	801.3	800.9
130°	834.9	835.9	837.0	838.0	838.6	838.9	839.1	839.2	839.4	838.9	838.2
132.5°	871.2	872.4	873.5	874.8	875.2	874.7	874.3	873.8	873.4	873.2	873.1
135°	922.6	923.9	925.1	926.3	926.8	926.3	926.0	925.5	925.1	924.6	924.3
137.5°	969.7	970.7	971.9	972.9	973.3	972.9	972.5	972.1	971.8	971.9	971.9
140°	999.8	1000.3	1000.7	1001.1	1001.3	1001.0	1000.8	1000.6	1000.4	1000.8	1001.3
142.5°	1027.6	1027.8	1028.0	1028.3	1028.6	1028.9	1029.2	1029.4	1029.7	1029.8	1029.9
145°	1068.6	1068.9	1069.4	1069.8	1070.1	1070.1	1070.1	1070.1	1070.1	1070.3	1070.4
147.5°	1103.8	1103.7	1103.6	1103.5	1103.6	1103.9	1104.2	1104.4	1104.7	1104.9	1105.1
150°	1126.1	1125.7	1125.2	1124.8	1124.8	1125.2	1125.7	1126.1	1126.5	1126.9	1127.4
152.5°	1147.5	1146.5	1145.6	1144.6	1144.4	1144.8	1145.2	1145.7	1146.0	1146.5	1146.9
155°	1175.2	1173.8	1172.6	1171.4	1170.9	1171.4	1171.8	1172.1	1172.6	1173.3	1173.8
157.5°	1197.2	1196.6	1195.8	1195.0	1194.7	1194.7	1194.8	1194.8	1194.9	1195.5	1196.2
160°	1211.8	1210.6	1209.3	1208.1	1207.5	1207.8	1208.0	1208.2	1208.3	1209.2	1210.0
162.5°	1223.9	1222.6	1221.3	1220.1	1219.6	1219.7	1220.0	1220.2	1220.4	1221.6	1222.8
165°	1240.0	1238.8	1237.6	1236.3	1235.8	1236.0	1236.1	1236.4	1236.6	1237.8	1239.1
167.5°	1252.1	1250.8	1249.4	1248.2	1247.6	1247.8	1248.0	1248.2	1248.5	1250.0	1251.5
170°	1258.7	1257.2	1255.7	1254.2	1253.7	1253.9	1254.1	1254.2	1254.5	1256.1	1257.8
172.5°	1263.2	1261.7	1260.3	1258.8	1258.3	1258.6	1259.0	1259.3	1259.7	1261.2	1262.7
175°	1268.3	1267.1	1265.7	1264.5	1264.0	1264.2	1264.4	1264.6	1264.8	1266.5	1268.2
177.5°	1270.8	1269.8	1268.8	1267.8	1267.3	1267.5	1267.7	1267.9	1268.0	1269.2	1270.4
180°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8	1498.8
2.5°	1567.5	1571.6	1580.3	1577.2	1581.3	1583.3	1585.4
5°	1694.1	1714.5	1723.3	1722.1	1735.5	1732.3	1729.1
7.5°	1837.1	1858.5	1870.5	1885.4	1894.0	1894.6	1902.1
10°	1918.1	1946.1	1957.5	1973.4	1983.6	1989.3	1988.7
12.5°	1980.2	2002.1	2027.7	2035.5	2049.3	2056.4	2053.8
15°	2054.8	2089.8	2116.6	2129.9	2147.1	2152.2	2159.2
17.5°	2121.5	2168.4	2199.6	2241.1	2256.7	2266.2	2260.7
20°	2171.9	2233.6	2264.7	2314.4	2341.7	2356.4	2351.3
22.5°	2231.5	2298.2	2355.9	2398.9	2440.4	2460.2	2464.3
25°	2333.5	2425.1	2509.7	2566.4	2617.8	2629.9	2656.7
27.5°	2447.5	2555.5	2646.0	2705.5	2741.4	2754.9	2763.3
30°	2519.2	2626.8	2694.8	2733.0	2744.4	2743.2	2741.9
32.5°	2554.4	2621.7	2634.8	2624.0	2597.8	2575.7	2552.6
35°	2504.6	2454.4	2379.3	2282.6	2211.3	2139.5	2132.4
37.5°	2252.6	2091.9	1966.9	1827.3	1746.8	1697.0	1662.7
40°	2015.3	1832.8	1681.4	1563.7	1481.7	1449.2	1417.4
42.5°	1757.8	1583.5	1449.3	1350.9	1289.3	1253.3	1228.0
45°	1428.2	1274.2	1169.3	1098.1	1049.0	1021.1	1005.1
47.5°	1170.3	1056.4	967.2	915.9	882.0	860.3	860.4
50°	1031.9	923.1	863.9	823.2	793.9	776.7	780.0
52.5°	909.2	827.9	777.4	743.3	721.7	711.1	710.8
55°	760.3	701.7	668.6	643.9	629.1	617.1	619.6
57.5°	650.3	601.0	578.8	558.2	548.0	543.2	536.1
60°	582.1	543.9	524.8	508.3	498.1	494.3	487.3
62.5°	521.5	491.5	473.0	459.4	450.3	449.0	443.6
65°	438.3	415.4	398.9	392.5	383.0	380.4	380.4
67.5°	361.4	345.0	332.1	326.2	322.1	322.6	319.6
70°	313.0	299.6	291.3	285.0	281.8	282.5	279.9
72.5°	273.8	258.9	251.7	247.9	243.6	245.3	244.3
75°	207.4	199.7	196.0	192.1	189.5	188.3	187.0
77.5°	152.3	145.5	142.6	140.4	140.8	137.8	140.3
80°	117.7	112.0	110.1	106.9	106.2	106.2	105.6
82.5°	86.1	82.9	81.5	78.9	77.8	78.8	77.1
85°	44.5	41.9	41.4	41.4	40.1	38.8	41.9
87.5°	19.9	18.1	18.3	17.9	18.0	17.6	16.8
90°	18.2	19.2	20.1	20.7	21.3	22.0	22.6
92.5°	18.2	19.2	19.9	20.2	20.5	20.8	21.1
95°	18.2	19.2	19.8	19.8	19.8	19.8	19.8
97.5°	28.7	22.7	19.8	19.8	19.8	19.8	19.8
100°	70.3	39.1	23.1	22.2	21.4	20.6	19.8
102.5°	191.2	185.3	175.3	161.1	146.8	132.6	118.4
105°	280.4	280.4	280.3	280.1	279.9	279.7	279.5
107.5°	355.2	355.2	354.9	354.2	353.6	353.0	352.3
110°	402.7	402.2	402.0	402.2	402.4	402.6	402.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	450.4	449.7	449.1	448.8	448.6	448.3	448.0
115°	522.6	521.8	520.8	519.5	518.2	517.0	515.8
117.5°	592.1	591.0	590.1	589.7	589.1	588.5	588.0
120°	637.7	637.3	636.6	635.6	634.5	633.5	632.4
122.5°	680.7	680.2	679.4	678.3	677.0	675.8	674.6
125°	742.8	742.0	741.3	740.6	740.0	739.4	738.8
127.5°	800.4	799.9	799.0	797.4	795.9	794.4	792.8
130°	837.5	837.0	836.1	835.1	834.1	833.0	831.9
132.5°	873.0	872.8	872.2	871.2	870.2	869.1	868.1
135°	923.9	923.4	922.6	921.3	920.1	918.8	917.6
137.5°	972.0	972.1	971.6	970.5	969.4	968.4	967.2
140°	1001.6	1002.0	1001.6	1000.4	999.1	997.9	996.6
142.5°	1030.0	1030.1	1029.5	1028.2	1027.0	1025.8	1024.4
145°	1070.6	1070.8	1070.4	1069.1	1067.8	1066.6	1065.4
147.5°	1105.4	1105.7	1105.0	1103.5	1102.0	1100.5	1099.0
150°	1127.8	1128.1	1127.6	1125.9	1124.2	1122.5	1120.9
152.5°	1147.4	1147.7	1147.2	1145.7	1144.2	1142.6	1141.1
155°	1174.5	1175.2	1174.6	1172.9	1171.2	1169.6	1167.9
157.5°	1196.8	1197.5	1197.0	1195.3	1193.6	1191.9	1190.3
160°	1210.9	1211.7	1211.3	1209.7	1208.0	1206.3	1204.6
162.5°	1223.9	1225.1	1224.7	1222.9	1221.1	1219.3	1217.4
165°	1240.4	1241.6	1241.4	1239.7	1238.0	1236.4	1234.7
167.5°	1253.0	1254.5	1254.3	1252.5	1250.6	1248.7	1246.8
170°	1259.5	1261.2	1261.0	1259.1	1257.4	1255.5	1253.6
172.5°	1264.2	1265.7	1265.6	1263.7	1261.8	1259.9	1258.1
175°	1269.9	1271.5	1271.4	1269.5	1267.6	1265.7	1263.9
177.5°	1271.6	1272.7	1272.6	1271.3	1270.0	1268.7	1267.2
180°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5

(END OF REPORT)