

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: P332073-940

Luminaire Tested: **S123DIP-S1165D1025U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332073-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D1025U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7508.6 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

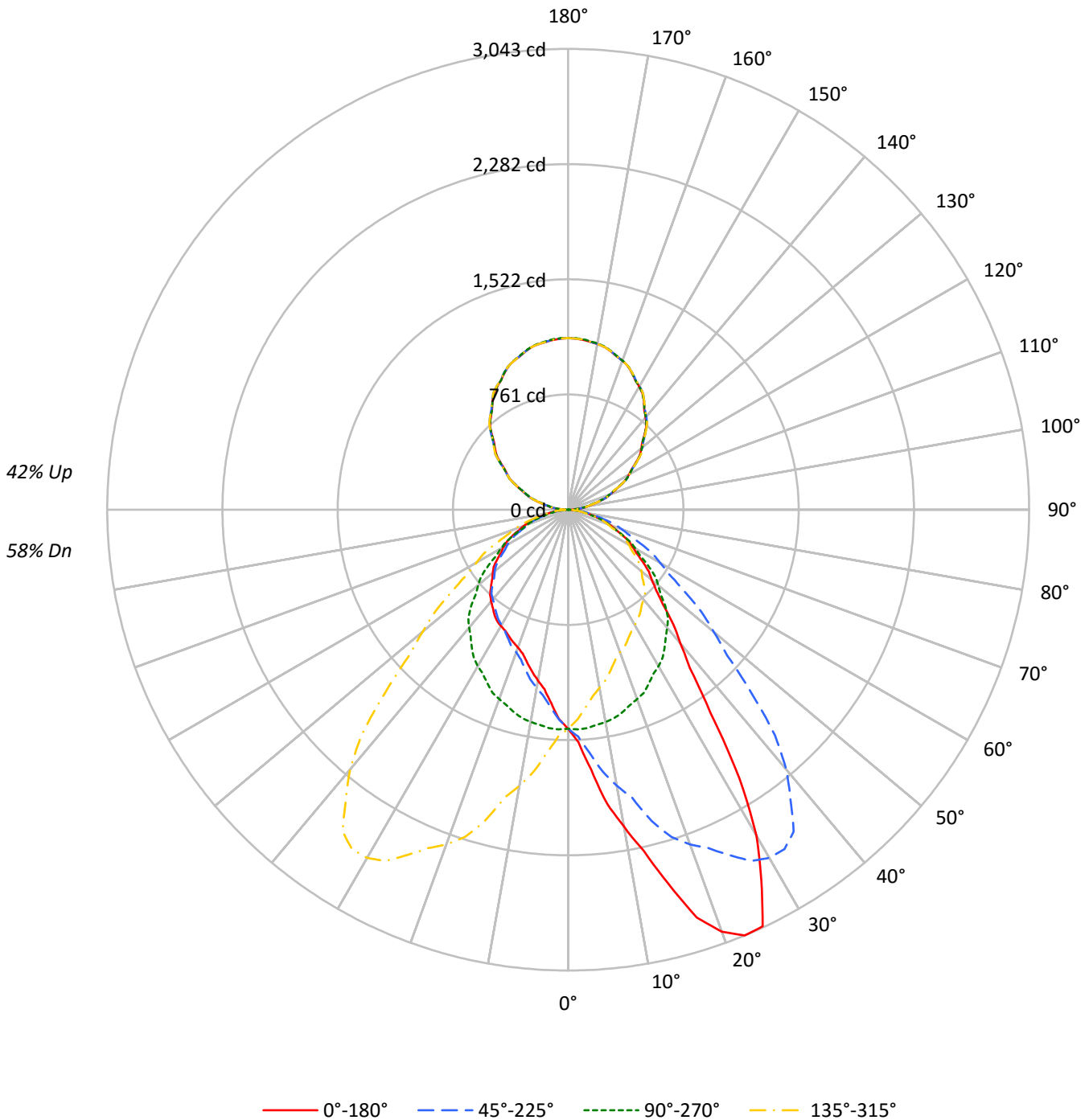
Input Watts (W): 66.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58
1	100	96	92	88	93	89	86	83	78	75	73	67	65	63	57	56	54	50
2	91	84	78	73	85	79	73	69	68	64	61	59	56	53	50	48	46	42
3	83	74	67	61	78	69	63	58	61	56	51	52	49	45	45	42	40	36
4	76	66	58	52	71	62	55	49	54	48	44	47	43	39	40	37	34	31
5	70	59	51	45	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	45	39	60	50	42	37	44	38	33	38	34	30	33	29	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	26	24	21
8	56	43	36	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	40	32	27	48	37	31	26	33	28	24	29	25	21	26	22	19	17
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15569	15569	15569	15569
5°	18567	15637	13857	15637
10°	23240	15557	12516	15557
15°	28505	15432	11652	15432
20°	33956	15237	11094	15237
25°	36056	14998	10969	14998
30°	30904	14825	11028	14825
35°	21494	14578	11143	14578
40°	16190	14289	11108	14289
45°	13443	13857	10966	13857
50°	12042	12980	10868	12980
55°	11258	12033	10732	12033
60°	10559	11044	10622	11044
65°	9926	10068	10282	10068
70°	9309	8954	9791	8954
75°	8339	7839	8979	7839
80°	7296	6428	7736	6428
85°	5718	4668	5199	4668



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	1.9
10°-20°	456.9	6.1
20°-30°	766.8	10.2
30°-40°	868.3	11.6
40°-50°	778.6	10.4
50°-60°	628.3	8.4
60°-70°	437.9	5.8
70°-80°	230.1	3.1
80°-90°	59.6	0.8
90°-100°	73.8	1.0
100°-110°	220.9	2.9
110°-120°	375.8	5.0
120°-130°	494.3	6.6
130°-140°	555.6	7.4
140°-150°	546.1	7.3
150°-160°	459.7	6.1
160°-170°	306.0	4.1
170°-180°	107.2	1.4
0°-30°	1366.2	18.2
0°-40°	2234.5	29.8
0°-60°	3641.5	48.5
0°-90°	4369.1	58.2
90°-120°	670.6	8.9
90°-150°	2266.5	30.2
90°-180°	3139.0	41.8
0°-180°	7508.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1446	1446	1446	1446	1446	
5°	1718	1447	1282	1447	1718	178
15°	2558	1385	1046	1385	2558	739
25°	3036	1263	924	1263	3036	1331
35°	1636	1109	848	1109	1636	1063
45°	883	910	720	910	883	699
55°	600	641	572	641	600	538
65°	390	395	404	395	390	388
75°	200	188	216	188	200	215
85°	46	38	42	38	46	55
90°	27	1	27	1	27	15
95°	70	52	70	52	70	71
105°	212	200	212	200	212	225
115°	379	378	379	378	379	375
125°	547	554	547	554	547	489
135°	718	718	718	718	718	552
145°	871	871	871	871	871	544
155°	996	998	996	998	996	459
165°	1083	1087	1083	1087	1083	306
175°	1126	1130	1126	1130	1126	107
180°	1133	1133	1133	1133	1133	



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1535.1	1533.9	1531.2	1533.4	1528.9	1522.7	1522.2	1516.5	1500.3	1499.1	1494.7
5°	1718.4	1712.8	1712.1	1711.4	1701.6	1688.3	1663.0	1660.9	1627.3	1610.4	1590.2
7.5°	1955.8	1958.7	1948.6	1939.6	1909.6	1889.8	1862.8	1828.2	1786.8	1744.9	1717.0
10°	2126.3	2149.4	2120.7	2101.0	2082.9	2048.4	2008.6	1958.7	1909.0	1850.8	1806.7
12.5°	2309.1	2320.4	2314.6	2296.2	2267.8	2215.5	2144.7	2090.0	2044.2	1947.3	1908.2
15°	2558.0	2600.8	2573.4	2510.3	2511.7	2461.9	2369.5	2267.8	2213.9	2129.0	2013.5
17.5°	2823.2	2828.5	2816.8	2764.3	2729.3	2660.9	2575.5	2478.1	2368.7	2266.2	2143.5
20°	2964.4	2960.2	2935.7	2908.4	2848.1	2794.9	2701.6	2593.0	2452.8	2352.0	2218.0
22.5°	3043.0	3035.9	3024.3	3001.4	2951.3	2894.0	2810.4	2691.7	2558.2	2419.2	2264.6
25°	3035.9	3045.0	3046.4	3040.1	3022.6	2988.3	2922.4	2827.8	2694.7	2516.0	2354.7
27.5°	2761.2	2774.1	2811.6	2844.7	2881.9	2919.7	2914.6	2867.7	2769.2	2614.9	2417.8
30°	2486.4	2458.4	2527.8	2615.5	2675.0	2780.1	2839.0	2842.5	2787.1	2654.7	2462.6
32.5°	2105.2	2136.1	2166.8	2274.6	2404.8	2522.8	2640.0	2734.3	2745.1	2656.9	2489.0
35°	1635.7	1674.3	1730.3	1786.4	1926.5	2047.1	2253.1	2432.5	2575.5	2594.4	2491.4
37.5°	1318.1	1337.1	1372.6	1428.8	1520.5	1663.5	1822.8	2049.6	2256.7	2410.8	2417.5
40°	1152.2	1157.7	1197.7	1240.5	1314.7	1432.4	1576.1	1776.6	2024.6	2239.8	2329.5
42.5°	1027.7	1040.0	1056.9	1098.1	1157.2	1245.8	1379.4	1545.0	1772.4	2020.0	2195.5
45°	883.1	897.1	907.6	934.9	977.0	1036.5	1129.7	1281.1	1454.2	1709.9	1946.2
47.5°	787.5	788.5	796.4	817.0	845.6	890.3	956.2	1053.5	1212.4	1419.9	1662.3
50°	719.1	730.2	733.1	749.1	771.6	804.5	859.2	941.9	1072.3	1254.5	1477.3
52.5°	670.8	674.2	682.1	693.7	713.3	739.0	786.3	851.0	953.4	1108.7	1313.6
55°	599.9	599.9	607.6	616.7	627.9	651.0	682.6	730.2	808.1	928.5	1098.1
57.5°	534.3	537.8	543.2	546.1	555.6	570.9	597.3	633.4	691.4	784.2	919.1
60°	490.5	496.9	496.1	501.8	510.2	522.1	544.6	574.0	625.8	700.1	813.7
62.5°	452.5	452.0	451.9	458.6	467.0	478.4	492.9	518.4	562.5	628.4	725.1
65°	389.7	388.3	393.2	397.3	400.2	408.6	419.8	442.2	471.6	520.7	595.7
67.5°	333.9	329.8	332.4	333.9	338.7	345.2	355.7	369.6	393.0	432.4	488.9
70°	295.8	292.2	291.5	292.9	297.1	302.0	309.8	323.1	344.8	376.3	417.7
72.5°	256.5	254.1	254.0	257.1	259.0	262.3	267.7	279.9	297.1	320.8	359.4
75°	200.5	200.5	200.5	201.2	203.2	206.1	210.3	216.5	229.9	246.6	272.6
77.5°	150.3	150.1	149.3	149.1	152.2	153.5	154.4	160.3	167.7	179.1	198.0
80°	117.7	114.2	115.7	117.7	119.1	119.8	122.0	123.3	129.7	136.0	149.3
82.5°	87.5	84.5	84.8	88.0	88.3	89.0	91.1	93.1	95.4	101.2	108.3
85°	46.3	46.3	47.0	47.0	47.6	47.0	49.0	49.8	49.8	53.2	57.4
87.5°	22.2	21.0	21.4	21.9	21.3	21.8	22.1	22.6	22.9	23.4	23.4
90°	26.7	26.3	25.9	25.5	25.1	24.5	23.7	22.9	22.1	21.4	18.8
92.5°	35.9	36.2	36.5	36.6	36.9	36.7	36.1	35.5	34.8	34.2	32.7
95°	69.5	69.5	69.5	69.5	69.5	69.0	68.2	67.4	66.7	65.9	64.3
97.5°	106.8	106.9	107.0	107.1	107.1	106.7	105.8	104.9	104.0	103.1	101.9
100°	135.3	134.9	134.5	134.1	133.8	133.2	132.6	132.1	131.4	130.8	129.8
102.5°	164.5	164.6	164.6	164.7	164.8	164.5	164.0	163.4	162.7	162.2	160.9
105°	211.9	211.4	211.1	210.6	210.3	210.1	210.1	210.1	210.1	210.1	208.3
107.5°	261.2	261.4	261.6	261.9	262.1	261.9	261.3	260.6	260.0	259.4	258.7
110°	294.6	295.1	295.4	295.8	296.2	296.0	295.2	294.4	293.6	292.8	292.5



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	330.2	330.3	330.4	330.5	330.6	330.1	329.1	328.2	327.3	326.3	326.3
115°	379.2	379.4	379.6	379.8	380.0	380.0	379.8	379.6	379.4	379.2	379.6
117.5°	428.8	429.4	430.0	430.5	431.1	431.4	431.4	431.4	431.5	431.5	432.0
120°	463.8	464.1	464.6	464.9	465.3	465.7	465.8	466.0	466.2	466.5	467.4
122.5°	497.2	497.8	498.3	498.9	499.4	500.0	500.5	501.0	501.5	502.0	502.6
125°	547.4	548.2	549.0	549.8	550.5	551.3	552.1	552.9	553.8	554.6	554.9
127.5°	597.4	598.3	599.2	600.2	601.1	602.1	603.2	604.3	605.4	606.5	607.0
130°	630.2	631.6	632.9	634.4	635.7	636.9	637.6	638.4	639.2	640.0	640.6
132.5°	664.4	665.5	666.6	667.6	668.7	669.7	670.7	671.5	672.5	673.4	673.9
135°	717.5	717.8	718.2	718.6	719.0	719.6	720.4	721.2	722.0	722.7	723.0
137.5°	764.3	765.0	765.7	766.5	767.2	768.0	768.9	769.7	770.5	771.3	770.9
140°	794.9	796.3	797.6	799.1	800.4	801.2	801.4	801.6	801.8	802.0	801.8
142.5°	826.2	827.2	828.3	829.4	830.5	831.1	831.3	831.5	831.7	831.9	831.5
145°	871.4	872.2	873.0	873.8	874.6	875.0	875.3	875.5	875.7	875.8	875.3
147.5°	911.7	912.8	914.0	915.3	916.4	917.0	917.0	917.0	917.0	917.0	916.4
150°	937.3	938.4	939.7	940.8	942.0	942.6	942.6	942.6	942.6	942.6	942.3
152.5°	962.2	963.2	964.3	965.3	966.3	966.7	966.3	966.1	965.7	965.5	965.2
155°	996.0	997.4	998.8	1000.2	1001.6	1001.8	1001.1	1000.3	999.5	998.7	998.5
157.5°	1026.8	1028.0	1029.0	1030.2	1031.3	1031.4	1030.6	1029.7	1028.9	1028.1	1028.0
160°	1046.8	1047.6	1048.4	1049.2	1049.9	1049.8	1048.8	1047.8	1046.9	1045.9	1045.9
162.5°	1061.8	1063.0	1064.3	1065.5	1066.8	1066.9	1066.0	1065.0	1064.0	1063.0	1062.8
165°	1083.3	1084.7	1086.0	1087.4	1088.8	1088.9	1087.7	1086.5	1085.3	1084.1	1084.1
167.5°	1101.6	1102.9	1104.0	1105.3	1106.5	1106.5	1105.3	1104.0	1102.9	1101.6	1101.4
170°	1110.9	1112.2	1113.7	1115.0	1116.4	1116.4	1115.0	1113.7	1112.2	1110.9	1110.9
172.5°	1117.9	1119.4	1120.8	1122.1	1123.6	1123.6	1122.4	1121.1	1119.9	1118.7	1118.7
175°	1126.0	1127.4	1128.7	1130.2	1131.5	1131.7	1130.4	1129.3	1128.1	1126.9	1126.9
177.5°	1130.2	1131.4	1132.5	1133.6	1134.7	1134.8	1133.8	1132.9	1131.9	1131.0	1131.0
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1491.3	1486.8	1482.4	1474.5	1467.8	1458.2	1455.5	1452.1	1442.0	1433.1	1426.3
5°	1582.4	1565.6	1541.1	1518.7	1500.5	1476.0	1461.9	1447.2	1426.1	1407.2	1391.8
7.5°	1677.8	1644.7	1606.5	1565.3	1527.0	1490.0	1460.1	1433.4	1404.0	1376.1	1354.4
10°	1753.5	1705.8	1652.5	1595.1	1546.0	1498.3	1458.4	1423.3	1385.5	1352.5	1325.3
12.5°	1839.8	1769.2	1695.7	1625.9	1567.9	1501.7	1453.3	1408.8	1365.9	1326.2	1295.6
15°	1942.0	1852.3	1765.3	1669.4	1581.0	1498.3	1440.9	1384.8	1335.1	1294.4	1255.2
17.5°	2035.1	1933.4	1818.9	1702.1	1595.6	1497.5	1417.0	1353.7	1291.5	1241.7	1202.6
20°	2087.8	1972.1	1842.5	1721.2	1603.5	1494.2	1405.9	1330.2	1262.8	1210.3	1166.2
22.5°	2133.2	1997.9	1863.8	1734.1	1602.9	1485.1	1385.1	1307.2	1234.3	1182.9	1135.9
25°	2180.2	2018.4	1883.8	1731.7	1585.3	1463.3	1351.2	1262.8	1190.0	1129.7	1081.4
27.5°	2220.6	2017.0	1857.3	1693.7	1557.5	1435.3	1315.5	1220.8	1143.4	1078.0	1028.9
30°	2247.5	2019.7	1829.8	1667.9	1530.6	1404.4	1288.1	1192.8	1111.5	1044.9	998.6
32.5°	2264.3	2018.0	1804.6	1632.1	1488.0	1376.4	1258.4	1159.7	1076.2	1010.8	966.2
35°	2274.1	2005.7	1761.1	1557.9	1419.2	1310.5	1211.7	1109.4	1021.8	960.8	910.3
37.5°	2254.5	1979.8	1710.7	1486.4	1334.5	1227.5	1144.4	1057.2	973.4	906.3	862.8
40°	2223.7	1963.0	1671.4	1436.0	1276.2	1173.1	1102.4	1016.9	934.2	870.4	829.7
42.5°	2164.8	1928.8	1628.3	1379.9	1215.7	1112.6	1047.4	976.0	897.8	837.9	797.3
45°	2021.2	1854.3	1563.5	1295.8	1126.2	1019.7	962.2	910.3	839.5	781.4	746.4
47.5°	1821.9	1742.4	1469.9	1207.1	1032.9	930.4	870.7	828.9	777.2	730.2	696.6
50°	1683.4	1650.4	1406.5	1146.6	970.6	870.4	813.0	775.1	738.0	691.0	660.1
52.5°	1523.6	1543.9	1332.6	1083.7	907.3	808.8	754.7	724.6	690.9	652.3	625.4
55°	1298.6	1372.2	1204.7	978.3	813.0	719.1	667.9	641.2	621.6	592.9	569.8
57.5°	1088.0	1181.6	1066.5	869.7	720.3	639.3	590.2	561.2	548.6	533.6	515.4
60°	963.0	1055.4	967.9	796.8	658.1	580.9	537.5	513.0	500.3	489.9	474.5
62.5°	851.3	944.9	871.4	722.8	596.9	525.5	487.6	463.7	453.9	448.4	435.2
65°	698.0	778.6	729.5	607.6	509.5	446.4	412.1	395.3	386.1	384.1	375.7
67.5°	568.1	629.5	593.7	504.0	426.8	372.3	343.1	328.9	321.8	321.1	314.8
70°	482.9	540.3	513.0	431.7	365.2	322.4	297.1	284.5	280.4	279.6	276.2
72.5°	416.7	456.8	435.1	367.2	315.8	277.0	258.4	245.3	240.5	241.5	239.2
75°	308.4	338.5	325.9	278.9	237.6	212.3	196.9	188.5	184.3	186.5	183.6
77.5°	221.9	240.9	229.6	197.1	171.6	153.4	142.0	136.8	133.0	132.9	131.6
80°	167.5	178.7	172.4	152.8	131.8	116.4	107.2	103.7	101.7	100.9	100.2
82.5°	119.3	128.9	121.4	107.9	93.6	84.4	79.2	74.5	73.0	73.5	72.8
85°	60.3	63.8	61.0	52.5	47.0	42.7	39.9	37.8	36.5	37.2	35.8
87.5°	24.0	24.1	21.8	19.2	17.7	15.5	15.2	13.6	12.9	13.3	13.1
90°	16.2	13.6	11.1	8.8	6.9	4.8	2.9	0.9	2.9	4.8	6.9
92.5°	31.2	29.8	28.4	26.9	25.6	24.3	22.9	21.6	22.9	24.3	25.6
95°	62.7	61.1	59.6	58.1	56.7	55.3	53.9	52.5	53.9	55.3	56.7
97.5°	100.8	99.6	98.4	97.4	96.4	95.3	94.3	93.3	94.3	95.3	96.4
100°	128.9	127.9	126.9	125.8	124.6	123.4	122.3	121.1	122.3	123.4	124.6
102.5°	159.5	158.3	156.9	156.0	155.2	154.5	153.8	153.1	153.8	154.5	155.2
105°	206.5	204.7	203.0	201.9	201.4	201.1	200.6	200.3	200.6	201.1	201.4
107.5°	258.0	257.3	256.5	256.1	255.8	255.6	255.4	255.1	255.4	255.6	255.8
110°	292.0	291.7	291.2	290.9	290.4	290.1	289.7	289.3	289.7	290.1	290.4



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	326.2	326.1	326.0	325.8	325.6	325.4	325.1	324.9	325.1	325.4	325.6
115°	380.0	380.4	380.8	380.7	380.0	379.5	378.9	378.3	378.9	379.5	380.0
117.5°	432.6	433.1	433.5	433.6	433.3	432.8	432.5	432.0	432.5	432.8	433.3
120°	468.4	469.4	470.4	470.3	469.1	467.9	466.7	465.6	466.7	467.9	469.1
122.5°	503.0	503.5	504.1	503.9	503.0	502.1	501.3	500.4	501.3	502.1	503.0
125°	555.4	555.7	556.2	556.0	555.4	554.8	554.3	553.7	554.3	554.8	555.4
127.5°	607.4	607.8	608.2	607.9	606.5	605.3	604.0	602.8	604.0	605.3	606.5
130°	641.1	641.8	642.4	641.9	640.2	638.7	637.1	635.5	637.1	638.7	640.2
132.5°	674.3	674.8	675.2	674.7	673.1	671.5	669.9	668.3	669.9	671.5	673.1
135°	723.2	723.4	723.5	723.1	721.8	720.7	719.5	718.4	719.5	720.7	721.8
137.5°	770.3	769.8	769.3	768.6	767.6	766.6	765.6	764.6	765.6	766.6	767.6
140°	801.6	801.4	801.2	800.6	799.6	798.6	797.6	796.7	797.6	798.6	799.6
142.5°	831.2	830.8	830.5	829.8	828.8	827.9	826.8	825.8	826.8	827.9	828.8
145°	874.7	874.1	873.5	873.0	872.6	872.2	871.8	871.4	871.8	872.2	872.6
147.5°	915.9	915.3	914.8	914.2	913.5	912.8	912.0	911.3	912.0	912.8	913.5
150°	941.8	941.5	941.0	940.7	940.2	939.9	939.5	939.1	939.5	939.9	940.2
152.5°	964.9	964.7	964.5	964.0	963.5	963.0	962.4	961.9	962.4	963.0	963.5
155°	998.3	998.1	997.9	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8
157.5°	1027.8	1027.6	1027.4	1027.5	1027.7	1028.0	1028.2	1028.4	1028.2	1028.0	1027.7
160°	1045.9	1045.9	1045.9	1046.1	1046.5	1046.9	1047.2	1047.7	1047.2	1046.9	1046.5
162.5°	1062.7	1062.5	1062.4	1062.6	1063.1	1063.6	1064.2	1064.8	1064.2	1063.6	1063.1
165°	1084.1	1084.1	1084.1	1084.5	1085.0	1085.7	1086.2	1086.8	1086.2	1085.7	1085.0
167.5°	1101.3	1101.2	1101.0	1101.3	1102.1	1102.9	1103.7	1104.5	1103.7	1102.9	1102.1
170°	1110.9	1110.9	1110.9	1111.3	1112.1	1112.9	1113.7	1114.5	1113.7	1112.9	1112.1
172.5°	1118.7	1118.7	1118.7	1119.1	1119.9	1120.7	1121.5	1122.2	1121.5	1120.7	1119.9
175°	1126.9	1126.9	1126.9	1127.3	1128.1	1128.8	1129.6	1130.4	1129.6	1128.8	1128.1
177.5°	1131.0	1131.0	1131.0	1131.3	1131.9	1132.6	1133.2	1133.8	1133.2	1132.6	1131.9
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1422.4	1418.4	1412.8	1404.4	1397.7	1387.1	1387.1	1388.8	1388.8	1388.2	1387.1
5°	1379.2	1368.7	1356.1	1341.4	1326.0	1310.5	1307.7	1302.1	1297.9	1295.1	1291.6
7.5°	1333.6	1315.0	1296.6	1276.0	1257.2	1241.7	1230.9	1221.9	1216.2	1210.1	1205.5
10°	1302.8	1279.7	1257.9	1236.3	1212.4	1193.5	1181.6	1173.1	1166.9	1161.3	1158.4
12.5°	1266.4	1239.9	1215.9	1195.3	1169.2	1149.8	1138.4	1134.4	1127.0	1115.3	1109.1
15°	1213.1	1188.6	1159.8	1128.3	1115.7	1091.9	1078.5	1072.3	1068.0	1058.9	1056.1
17.5°	1167.5	1135.4	1103.2	1079.7	1056.2	1036.9	1029.5	1021.6	1016.0	1008.6	1006.4
20°	1131.1	1102.4	1072.9	1047.8	1023.1	1002.2	995.9	990.2	984.6	981.1	978.3
22.5°	1094.1	1065.4	1041.0	1017.4	991.2	977.5	970.6	964.5	960.6	958.1	955.4
25°	1042.1	1016.9	989.5	968.5	947.5	938.3	934.2	930.7	927.9	924.3	923.6
27.5°	995.6	968.1	945.9	926.3	911.2	903.7	899.6	897.9	898.5	899.7	900.5
30°	960.8	935.6	917.4	900.5	886.5	879.5	878.8	878.8	881.6	882.3	883.7
32.5°	928.9	908.1	889.9	873.6	863.0	858.2	860.9	860.9	863.1	865.0	867.5
35°	882.3	864.1	850.1	836.1	827.0	829.0	830.5	831.9	835.4	839.5	842.4
37.5°	837.9	822.1	807.4	796.6	792.4	796.1	799.5	802.5	806.5	809.8	812.5
40°	805.9	794.0	780.0	770.2	771.6	773.7	776.5	780.0	783.5	785.6	788.5
42.5°	776.2	763.8	753.1	744.9	746.9	749.6	751.3	753.1	757.2	761.0	762.6
45°	730.9	721.1	711.3	706.4	707.8	709.3	710.6	712.7	716.2	719.1	719.7
47.5°	680.1	673.2	666.6	661.8	664.1	663.5	665.4	669.9	670.9	672.6	676.5
50°	647.6	641.2	633.6	632.1	632.1	632.1	632.8	638.5	638.5	641.2	644.1
52.5°	611.7	607.6	602.7	600.2	599.1	599.1	602.0	604.8	605.9	609.8	612.7
55°	558.6	554.4	550.1	548.0	546.6	548.0	553.7	555.0	558.6	560.6	562.8
57.5°	503.2	500.0	496.6	495.4	495.2	497.0	500.1	504.3	505.2	511.6	514.8
60°	466.7	461.8	459.1	459.1	457.6	464.0	462.5	469.6	470.9	475.2	480.1
62.5°	429.2	422.6	421.5	421.5	423.5	425.3	427.2	430.3	433.9	439.3	443.1
65°	368.6	365.2	370.1	369.3	367.9	372.1	372.1	375.7	379.9	384.8	392.4
67.5°	311.3	309.5	309.9	309.9	312.0	314.4	316.4	319.4	324.5	329.7	334.7
70°	272.6	274.7	271.3	274.0	276.2	276.8	278.2	282.4	288.0	291.5	297.1
72.5°	235.1	234.9	235.3	236.5	238.5	239.8	241.2	246.0	252.2	255.1	259.6
75°	180.8	180.1	182.2	182.2	185.7	187.1	188.5	190.6	196.3	200.5	203.9
77.5°	132.1	132.9	132.4	134.8	133.8	134.1	138.5	140.6	141.2	149.5	151.2
80°	99.5	100.9	101.7	102.3	103.0	101.7	106.6	108.6	108.6	113.5	117.0
82.5°	71.5	72.3	74.2	74.8	75.0	76.4	76.8	78.4	80.1	82.1	86.8
85°	35.8	37.8	38.5	37.8	38.5	37.2	39.2	39.9	40.7	40.7	40.7
87.5°	12.9	14.0	13.9	15.0	15.0	16.1	16.2	15.2	15.4	17.2	15.2
90°	8.8	11.1	13.6	16.2	18.8	21.4	22.1	22.9	23.7	24.5	25.1
92.5°	26.9	28.4	29.8	31.2	32.7	34.2	34.8	35.5	36.1	36.7	36.9
95°	58.1	59.6	61.1	62.7	64.3	65.9	66.7	67.4	68.2	69.0	69.5
97.5°	97.4	98.4	99.6	100.8	101.9	103.1	104.0	104.9	105.8	106.7	107.1
100°	125.8	126.9	127.9	128.9	129.8	130.8	131.4	132.1	132.6	133.2	133.8
102.5°	156.0	156.9	158.3	159.5	160.9	162.2	162.7	163.4	164.0	164.5	164.8
105°	201.9	203.0	204.7	206.5	208.3	210.1	210.1	210.1	210.1	210.1	210.3
107.5°	256.1	256.5	257.3	258.0	258.7	259.4	260.0	260.6	261.3	261.9	262.1
110°	290.9	291.2	291.7	292.0	292.5	292.8	293.6	294.4	295.2	296.0	296.2



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	325.8	326.0	326.1	326.2	326.3	326.3	327.3	328.2	329.1	330.1	330.6
115°	380.7	380.8	380.4	380.0	379.6	379.2	379.4	379.6	379.8	380.0	380.0
117.5°	433.6	433.5	433.1	432.6	432.0	431.5	431.5	431.4	431.4	431.4	431.1
120°	470.3	470.4	469.4	468.4	467.4	466.5	466.2	466.0	465.8	465.7	465.3
122.5°	503.9	504.1	503.5	503.0	502.6	502.0	501.5	501.0	500.5	500.0	499.4
125°	556.0	556.2	555.7	555.4	554.9	554.6	553.8	552.9	552.1	551.3	550.5
127.5°	607.9	608.2	607.8	607.4	607.0	606.5	605.4	604.3	603.2	602.1	601.1
130°	641.9	642.4	641.8	641.1	640.6	640.0	639.2	638.4	637.6	636.9	635.7
132.5°	674.7	675.2	674.8	674.3	673.9	673.4	672.5	671.5	670.7	669.7	668.7
135°	723.1	723.5	723.4	723.2	723.0	722.7	722.0	721.2	720.4	719.6	719.0
137.5°	768.6	769.3	769.8	770.3	770.9	771.3	770.5	769.7	768.9	768.0	767.2
140°	800.6	801.2	801.4	801.6	801.8	802.0	801.8	801.6	801.4	801.2	800.4
142.5°	829.8	830.5	830.8	831.2	831.5	831.9	831.7	831.5	831.3	831.1	830.5
145°	873.0	873.5	874.1	874.7	875.3	875.8	875.7	875.5	875.3	875.0	874.6
147.5°	914.2	914.8	915.3	915.9	916.4	917.0	917.0	917.0	917.0	917.0	916.4
150°	940.7	941.0	941.5	941.8	942.3	942.6	942.6	942.6	942.6	942.6	942.0
152.5°	964.0	964.5	964.7	964.9	965.2	965.5	965.7	966.1	966.3	966.7	966.3
155°	997.8	997.9	998.1	998.3	998.5	998.7	999.5	1000.3	1001.1	1001.8	1001.6
157.5°	1027.5	1027.4	1027.6	1027.8	1028.0	1028.1	1028.9	1029.7	1030.6	1031.4	1031.3
160°	1046.1	1045.9	1045.9	1045.9	1045.9	1045.9	1046.9	1047.8	1048.8	1049.8	1049.9
162.5°	1062.6	1062.4	1062.5	1062.7	1062.8	1063.0	1064.0	1065.0	1066.0	1066.9	1066.8
165°	1084.5	1084.1	1084.1	1084.1	1084.1	1084.1	1085.3	1086.5	1087.7	1088.9	1088.8
167.5°	1101.3	1101.0	1101.2	1101.3	1101.4	1101.6	1102.9	1104.0	1105.3	1106.5	1106.5
170°	1111.3	1110.9	1110.9	1110.9	1110.9	1110.9	1112.2	1113.7	1115.0	1116.4	1116.4
172.5°	1119.1	1118.7	1118.7	1118.7	1118.7	1118.7	1119.9	1121.1	1122.4	1123.6	1123.6
175°	1127.3	1126.9	1126.9	1126.9	1126.9	1126.9	1128.1	1129.3	1130.4	1131.7	1131.5
177.5°	1131.3	1131.0	1131.0	1131.0	1131.0	1131.0	1131.9	1132.9	1133.8	1134.8	1134.7
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1383.1	1382.6	1386.5	1383.7	1386.5	1382.6	1383.1	1387.1	1388.2	1388.8	1388.8
5°	1287.4	1289.5	1282.5	1282.5	1282.5	1289.5	1287.4	1291.6	1295.1	1297.9	1302.1
7.5°	1202.2	1199.1	1199.4	1195.6	1199.4	1199.1	1202.2	1205.5	1210.1	1216.2	1221.9
10°	1150.0	1145.8	1144.4	1145.1	1144.4	1145.8	1150.0	1158.4	1161.3	1166.9	1173.1
12.5°	1106.9	1106.0	1096.8	1096.9	1096.8	1106.0	1106.9	1109.1	1115.3	1127.0	1134.4
15°	1056.1	1042.9	1041.4	1045.6	1041.4	1042.9	1056.1	1056.1	1058.9	1068.0	1072.3
17.5°	1005.2	998.3	998.6	996.6	998.6	998.3	1005.2	1006.4	1008.6	1016.0	1021.6
20°	978.3	974.1	973.4	968.5	973.4	974.1	978.3	978.3	981.1	984.6	990.2
22.5°	953.7	952.3	952.7	947.3	952.7	952.3	953.7	955.4	958.1	960.6	964.5
25°	923.0	926.5	923.6	923.6	923.6	926.5	923.0	923.6	924.3	927.9	930.7
27.5°	902.2	902.1	900.7	900.7	900.7	902.1	902.2	900.5	899.7	898.5	897.9
30°	886.5	885.8	887.3	887.3	887.3	885.8	886.5	883.7	882.3	881.6	878.8
32.5°	870.8	871.8	872.1	872.6	872.1	871.8	870.8	867.5	865.0	863.1	860.9
35°	846.6	847.3	849.4	848.0	849.4	847.3	846.6	842.4	839.5	835.4	831.9
37.5°	813.8	817.0	816.3	817.4	816.3	817.0	813.8	812.5	809.8	806.5	802.5
40°	789.1	791.2	790.5	790.5	790.5	791.2	789.1	788.5	785.6	783.5	780.0
42.5°	763.9	765.4	763.6	762.5	763.6	765.4	763.9	762.6	761.0	757.2	753.1
45°	722.6	721.1	723.3	720.4	723.3	721.1	722.6	719.7	719.1	716.2	712.7
47.5°	676.3	677.7	678.2	680.4	678.2	677.7	676.3	676.5	672.6	670.9	669.9
50°	645.4	649.6	649.6	649.0	649.6	649.6	645.4	644.1	641.2	638.5	638.5
52.5°	615.2	617.2	619.9	619.8	619.9	617.2	615.2	612.7	609.8	605.9	604.8
55°	568.4	569.8	571.1	571.9	571.1	569.8	568.4	562.8	560.6	558.6	555.0
57.5°	519.9	519.3	522.6	523.6	522.6	519.3	519.9	514.8	511.6	505.2	504.3
60°	485.6	485.6	491.2	493.4	491.2	485.6	485.6	480.1	475.2	470.9	469.6
62.5°	449.2	451.5	457.1	454.1	457.1	451.5	449.2	443.1	439.3	433.9	430.3
65°	395.9	401.5	400.8	403.7	400.8	401.5	395.9	392.4	384.8	379.9	375.7
67.5°	340.3	343.8	348.8	349.3	348.8	343.8	340.3	334.7	329.7	324.5	319.4
70°	302.7	306.2	309.1	311.1	309.1	306.2	302.7	297.1	291.5	288.0	282.4
72.5°	266.4	268.1	274.8	271.9	274.8	268.1	266.4	259.6	255.1	252.2	246.0
75°	208.8	213.7	217.9	215.9	217.9	213.7	208.8	203.9	200.5	196.3	190.6
77.5°	154.4	159.3	161.3	159.5	161.3	159.3	154.4	151.2	149.5	141.2	140.6
80°	122.0	121.3	125.5	124.8	125.5	121.3	122.0	117.0	113.5	108.6	108.6
82.5°	89.4	88.7	90.7	91.1	90.7	88.7	89.4	86.8	82.1	80.1	78.4
85°	43.4	45.6	42.7	42.1	42.7	45.6	43.4	40.7	40.7	40.7	39.9
87.5°	15.2	15.2	14.8	14.3	14.8	15.2	15.2	15.2	17.2	15.4	15.2
90°	25.5	25.9	26.3	26.7	26.3	25.9	25.5	25.1	24.5	23.7	22.9
92.5°	36.6	36.5	36.2	35.9	36.2	36.5	36.6	36.9	36.7	36.1	35.5
95°	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.0	68.2	67.4
97.5°	107.1	107.0	106.9	106.8	106.9	107.0	107.1	107.1	106.7	105.8	104.9
100°	134.1	134.5	134.9	135.3	134.9	134.5	134.1	133.8	133.2	132.6	132.1
102.5°	164.7	164.6	164.6	164.5	164.6	164.6	164.7	164.8	164.5	164.0	163.4
105°	210.6	211.1	211.4	211.9	211.4	211.1	210.6	210.3	210.1	210.1	210.1
107.5°	261.9	261.6	261.4	261.2	261.4	261.6	261.9	262.1	261.9	261.3	260.6
110°	295.8	295.4	295.1	294.6	295.1	295.4	295.8	296.2	296.0	295.2	294.4



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	330.5	330.4	330.3	330.2	330.3	330.4	330.5	330.6	330.1	329.1	328.2
115°	379.8	379.6	379.4	379.2	379.4	379.6	379.8	380.0	380.0	379.8	379.6
117.5°	430.5	430.0	429.4	428.8	429.4	430.0	430.5	431.1	431.4	431.4	431.4
120°	464.9	464.6	464.1	463.8	464.1	464.6	464.9	465.3	465.7	465.8	466.0
122.5°	498.9	498.3	497.8	497.2	497.8	498.3	498.9	499.4	500.0	500.5	501.0
125°	549.8	549.0	548.2	547.4	548.2	549.0	549.8	550.5	551.3	552.1	552.9
127.5°	600.2	599.2	598.3	597.4	598.3	599.2	600.2	601.1	602.1	603.2	604.3
130°	634.4	632.9	631.6	630.2	631.6	632.9	634.4	635.7	636.9	637.6	638.4
132.5°	667.6	666.6	665.5	664.4	665.5	666.6	667.6	668.7	669.7	670.7	671.5
135°	718.6	718.2	717.8	717.5	717.8	718.2	718.6	719.0	719.6	720.4	721.2
137.5°	766.5	765.7	765.0	764.3	765.0	765.7	766.5	767.2	768.0	768.9	769.7
140°	799.1	797.6	796.3	794.9	796.3	797.6	799.1	800.4	801.2	801.4	801.6
142.5°	829.4	828.3	827.2	826.2	827.2	828.3	829.4	830.5	831.1	831.3	831.5
145°	873.8	873.0	872.2	871.4	872.2	873.0	873.8	874.6	875.0	875.3	875.5
147.5°	915.3	914.0	912.8	911.7	912.8	914.0	915.3	916.4	917.0	917.0	917.0
150°	940.8	939.7	938.4	937.3	938.4	939.7	940.8	942.0	942.6	942.6	942.6
152.5°	965.3	964.3	963.2	962.2	963.2	964.3	965.3	966.3	966.7	966.3	966.1
155°	1000.2	998.8	997.4	996.0	997.4	998.8	1000.2	1001.6	1001.8	1001.1	1000.3
157.5°	1030.2	1029.0	1028.0	1026.8	1028.0	1029.0	1030.2	1031.3	1031.4	1030.6	1029.7
160°	1049.2	1048.4	1047.6	1046.8	1047.6	1048.4	1049.2	1049.9	1049.8	1048.8	1047.8
162.5°	1065.5	1064.3	1063.0	1061.8	1063.0	1064.3	1065.5	1066.8	1066.9	1066.0	1065.0
165°	1087.4	1086.0	1084.7	1083.3	1084.7	1086.0	1087.4	1088.8	1088.9	1087.7	1086.5
167.5°	1105.3	1104.0	1102.9	1101.6	1102.9	1104.0	1105.3	1106.5	1106.5	1105.3	1104.0
170°	1115.0	1113.7	1112.2	1110.9	1112.2	1113.7	1115.0	1116.4	1116.4	1115.0	1113.7
172.5°	1122.1	1120.8	1119.4	1117.9	1119.4	1120.8	1122.1	1123.6	1123.6	1122.4	1121.1
175°	1130.2	1128.7	1127.4	1126.0	1127.4	1128.7	1130.2	1131.5	1131.7	1130.4	1129.3
177.5°	1133.6	1132.5	1131.4	1130.2	1131.4	1132.5	1133.6	1134.7	1134.8	1133.8	1132.9
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1387.1	1387.1	1397.7	1404.4	1412.8	1418.4	1422.4	1426.3	1433.1	1442.0	1452.1
5°	1307.7	1310.5	1326.0	1341.4	1356.1	1368.7	1379.2	1391.8	1407.2	1426.1	1447.2
7.5°	1230.9	1241.7	1257.2	1276.0	1296.6	1315.0	1333.6	1354.4	1376.1	1404.0	1433.4
10°	1181.6	1193.5	1212.4	1236.3	1257.9	1279.7	1302.8	1325.3	1352.5	1385.5	1423.3
12.5°	1138.4	1149.8	1169.2	1195.3	1215.9	1239.9	1266.4	1295.6	1326.2	1365.9	1408.8
15°	1078.5	1091.9	1115.7	1128.3	1159.8	1188.6	1213.1	1255.2	1294.4	1335.1	1384.8
17.5°	1029.5	1036.9	1056.2	1079.7	1103.2	1135.4	1167.5	1202.6	1241.7	1291.5	1353.7
20°	995.9	1002.2	1023.1	1047.8	1072.9	1102.4	1131.1	1166.2	1210.3	1262.8	1330.2
22.5°	970.6	977.5	991.2	1017.4	1041.0	1065.4	1094.1	1135.9	1182.9	1234.3	1307.2
25°	934.2	938.3	947.5	968.5	989.5	1016.9	1042.1	1081.4	1129.7	1190.0	1262.8
27.5°	899.6	903.7	911.2	926.3	945.9	968.1	995.6	1028.9	1078.0	1143.4	1220.8
30°	878.8	879.5	886.5	900.5	917.4	935.6	960.8	998.6	1044.9	1111.5	1192.8
32.5°	860.9	858.2	863.0	873.6	889.9	908.1	928.9	966.2	1010.8	1076.2	1159.7
35°	830.5	829.0	827.0	836.1	850.1	864.1	882.3	910.3	960.8	1021.8	1109.4
37.5°	799.5	796.1	792.4	796.6	807.4	822.1	837.9	862.8	906.3	973.4	1057.2
40°	776.5	773.7	771.6	770.2	780.0	794.0	805.9	829.7	870.4	934.2	1016.9
42.5°	751.3	749.6	746.9	744.9	753.1	763.8	776.2	797.3	837.9	897.8	976.0
45°	710.6	709.3	707.8	706.4	711.3	721.1	730.9	746.4	781.4	839.5	910.3
47.5°	665.4	663.5	664.1	661.8	666.6	673.2	680.1	696.6	730.2	777.2	828.9
50°	632.8	632.1	632.1	632.1	633.6	641.2	647.6	660.1	691.0	738.0	775.1
52.5°	602.0	599.1	599.1	600.2	602.7	607.6	611.7	625.4	652.3	690.9	724.6
55°	553.7	548.0	546.6	548.0	550.1	554.4	558.6	569.8	592.9	621.6	641.2
57.5°	500.1	497.0	495.2	495.4	496.6	500.0	503.2	515.4	533.6	548.6	561.2
60°	462.5	464.0	457.6	459.1	459.1	461.8	466.7	474.5	489.9	500.3	513.0
62.5°	427.2	425.3	423.5	421.5	421.5	422.6	429.2	435.2	448.4	453.9	463.7
65°	372.1	372.1	367.9	369.3	370.1	365.2	368.6	375.7	384.1	386.1	395.3
67.5°	316.4	314.4	312.0	309.9	309.9	309.5	311.3	314.8	321.1	321.8	328.9
70°	278.2	276.8	276.2	274.0	271.3	274.7	272.6	276.2	279.6	280.4	284.5
72.5°	241.2	239.8	238.5	236.5	235.3	234.9	235.1	239.2	241.5	240.5	245.3
75°	188.5	187.1	185.7	182.2	182.2	180.1	180.8	183.6	186.5	184.3	188.5
77.5°	138.5	134.1	133.8	134.8	132.4	132.9	132.1	131.6	132.9	133.0	136.8
80°	106.6	101.7	103.0	102.3	101.7	100.9	99.5	100.2	100.9	101.7	103.7
82.5°	76.8	76.4	75.0	74.8	74.2	72.3	71.5	72.8	73.5	73.0	74.5
85°	39.2	37.2	38.5	37.8	38.5	37.8	35.8	35.8	37.2	36.5	37.8
87.5°	16.2	16.1	15.0	15.0	13.9	14.0	12.9	13.1	13.3	12.9	13.6
90°	22.1	21.4	18.8	16.2	13.6	11.1	8.8	6.9	4.8	2.9	0.9
92.5°	34.8	34.2	32.7	31.2	29.8	28.4	26.9	25.6	24.3	22.9	21.6
95°	66.7	65.9	64.3	62.7	61.1	59.6	58.1	56.7	55.3	53.9	52.5
97.5°	104.0	103.1	101.9	100.8	99.6	98.4	97.4	96.4	95.3	94.3	93.3
100°	131.4	130.8	129.8	128.9	127.9	126.9	125.8	124.6	123.4	122.3	121.1
102.5°	162.7	162.2	160.9	159.5	158.3	156.9	156.0	155.2	154.5	153.8	153.1
105°	210.1	210.1	208.3	206.5	204.7	203.0	201.9	201.4	201.1	200.6	200.3
107.5°	260.0	259.4	258.7	258.0	257.3	256.5	256.1	255.8	255.6	255.4	255.1
110°	293.6	292.8	292.5	292.0	291.7	291.2	290.9	290.4	290.1	289.7	289.3



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	327.3	326.3	326.3	326.2	326.1	326.0	325.8	325.6	325.4	325.1	324.9
115°	379.4	379.2	379.6	380.0	380.4	380.8	380.7	380.0	379.5	378.9	378.3
117.5°	431.5	431.5	432.0	432.6	433.1	433.5	433.6	433.3	432.8	432.5	432.0
120°	466.2	466.5	467.4	468.4	469.4	470.4	470.3	469.1	467.9	466.7	465.6
122.5°	501.5	502.0	502.6	503.0	503.5	504.1	503.9	503.0	502.1	501.3	500.4
125°	553.8	554.6	554.9	555.4	555.7	556.2	556.0	555.4	554.8	554.3	553.7
127.5°	605.4	606.5	607.0	607.4	607.8	608.2	607.9	606.5	605.3	604.0	602.8
130°	639.2	640.0	640.6	641.1	641.8	642.4	641.9	640.2	638.7	637.1	635.5
132.5°	672.5	673.4	673.9	674.3	674.8	675.2	674.7	673.1	671.5	669.9	668.3
135°	722.0	722.7	723.0	723.2	723.4	723.5	723.1	721.8	720.7	719.5	718.4
137.5°	770.5	771.3	770.9	770.3	769.8	769.3	768.6	767.6	766.6	765.6	764.6
140°	801.8	802.0	801.8	801.6	801.4	801.2	800.6	799.6	798.6	797.6	796.7
142.5°	831.7	831.9	831.5	831.2	830.8	830.5	829.8	828.8	827.9	826.8	825.8
145°	875.7	875.8	875.3	874.7	874.1	873.5	873.0	872.6	872.2	871.8	871.4
147.5°	917.0	917.0	916.4	915.9	915.3	914.8	914.2	913.5	912.8	912.0	911.3
150°	942.6	942.6	942.3	941.8	941.5	941.0	940.7	940.2	939.9	939.5	939.1
152.5°	965.7	965.5	965.2	964.9	964.7	964.5	964.0	963.5	963.0	962.4	961.9
155°	999.5	998.7	998.5	998.3	998.1	997.9	997.8	997.8	997.8	997.8	997.8
157.5°	1028.9	1028.1	1028.0	1027.8	1027.6	1027.4	1027.5	1027.7	1028.0	1028.2	1028.4
160°	1046.9	1045.9	1045.9	1045.9	1045.9	1045.9	1046.1	1046.5	1046.9	1047.2	1047.7
162.5°	1064.0	1063.0	1062.8	1062.7	1062.5	1062.4	1062.6	1063.1	1063.6	1064.2	1064.8
165°	1085.3	1084.1	1084.1	1084.1	1084.1	1084.1	1084.5	1085.0	1085.7	1086.2	1086.8
167.5°	1102.9	1101.6	1101.4	1101.3	1101.2	1101.0	1101.3	1102.1	1102.9	1103.7	1104.5
170°	1112.2	1110.9	1110.9	1110.9	1110.9	1110.9	1111.3	1112.1	1112.9	1113.7	1114.5
172.5°	1119.9	1118.7	1118.7	1118.7	1118.7	1118.7	1119.1	1119.9	1120.7	1121.5	1122.2
175°	1128.1	1126.9	1126.9	1126.9	1126.9	1126.9	1127.3	1128.1	1128.8	1129.6	1130.4
177.5°	1131.9	1131.0	1131.0	1131.0	1131.0	1131.0	1131.3	1131.9	1132.6	1133.2	1133.8
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1455.5	1458.2	1467.8	1474.5	1482.4	1486.8	1491.3	1494.7	1499.1	1500.3	1516.5
5°	1461.9	1476.0	1500.5	1518.7	1541.1	1565.6	1582.4	1590.2	1610.4	1627.3	1660.9
7.5°	1460.1	1490.0	1527.0	1565.3	1606.5	1644.7	1677.8	1717.0	1744.9	1786.8	1828.2
10°	1458.4	1498.3	1546.0	1595.1	1652.5	1705.8	1753.5	1806.7	1850.8	1909.0	1958.7
12.5°	1453.3	1501.7	1567.9	1625.9	1695.7	1769.2	1839.8	1908.2	1947.3	2044.2	2090.0
15°	1440.9	1498.3	1581.0	1669.4	1765.3	1852.3	1942.0	2013.5	2129.0	2213.9	2267.8
17.5°	1417.0	1497.5	1595.6	1702.1	1818.9	1933.4	2035.1	2143.5	2266.2	2368.7	2478.1
20°	1405.9	1494.2	1603.5	1721.2	1842.5	1972.1	2087.8	2218.0	2352.0	2452.8	2593.0
22.5°	1385.1	1485.1	1602.9	1734.1	1863.8	1997.9	2133.2	2264.6	2419.2	2558.2	2691.7
25°	1351.2	1463.3	1585.3	1731.7	1883.8	2018.4	2180.2	2354.7	2516.0	2694.7	2827.8
27.5°	1315.5	1435.3	1557.5	1693.7	1857.3	2017.0	2220.6	2417.8	2614.9	2769.2	2867.7
30°	1288.1	1404.4	1530.6	1667.9	1829.8	2019.7	2247.5	2462.6	2654.7	2787.1	2842.5
32.5°	1258.4	1376.4	1488.0	1632.1	1804.6	2018.0	2264.3	2489.0	2656.9	2745.1	2734.3
35°	1211.7	1310.5	1419.2	1557.9	1761.1	2005.7	2274.1	2491.4	2594.4	2575.5	2432.5
37.5°	1144.4	1227.5	1334.5	1486.4	1710.7	1979.8	2254.5	2417.5	2410.8	2256.7	2049.6
40°	1102.4	1173.1	1276.2	1436.0	1671.4	1963.0	2223.7	2329.5	2239.8	2024.6	1776.6
42.5°	1047.4	1112.6	1215.7	1379.9	1628.3	1928.8	2164.8	2195.5	2020.0	1772.4	1545.0
45°	962.2	1019.7	1126.2	1295.8	1563.5	1854.3	2021.2	1946.2	1709.9	1454.2	1281.1
47.5°	870.7	930.4	1032.9	1207.1	1469.9	1742.4	1821.9	1662.3	1419.9	1212.4	1053.5
50°	813.0	870.4	970.6	1146.6	1406.5	1650.4	1683.4	1477.3	1254.5	1072.3	941.9
52.5°	754.7	808.8	907.3	1083.7	1332.6	1543.9	1523.6	1313.6	1108.7	953.4	851.0
55°	667.9	719.1	813.0	978.3	1204.7	1372.2	1298.6	1098.1	928.5	808.1	730.2
57.5°	590.2	639.3	720.3	869.7	1066.5	1181.6	1088.0	919.1	784.2	691.4	633.4
60°	537.5	580.9	658.1	796.8	967.9	1055.4	963.0	813.7	700.1	625.8	574.0
62.5°	487.6	525.5	596.9	722.8	871.4	944.9	851.3	725.1	628.4	562.5	518.4
65°	412.1	446.4	509.5	607.6	729.5	778.6	698.0	595.7	520.7	471.6	442.2
67.5°	343.1	372.3	426.8	504.0	593.7	629.5	568.1	488.9	432.4	393.0	369.6
70°	297.1	322.4	365.2	431.7	513.0	540.3	482.9	417.7	376.3	344.8	323.1
72.5°	258.4	277.0	315.8	367.2	435.1	456.8	416.7	359.4	320.8	297.1	279.9
75°	196.9	212.3	237.6	278.9	325.9	338.5	308.4	272.6	246.6	229.9	216.5
77.5°	142.0	153.4	171.6	197.1	229.6	240.9	221.9	198.0	179.1	167.7	160.3
80°	107.2	116.4	131.8	152.8	172.4	178.7	167.5	149.3	136.0	129.7	123.3
82.5°	79.2	84.4	93.6	107.9	121.4	128.9	119.3	108.3	101.2	95.4	93.1
85°	39.9	42.7	47.0	52.5	61.0	63.8	60.3	57.4	53.2	49.8	49.8
87.5°	15.2	15.5	17.7	19.2	21.8	24.1	24.0	23.4	23.4	22.9	22.6
90°	2.9	4.8	6.9	8.8	11.1	13.6	16.2	18.8	21.4	22.1	22.9
92.5°	22.9	24.3	25.6	26.9	28.4	29.8	31.2	32.7	34.2	34.8	35.5
95°	53.9	55.3	56.7	58.1	59.6	61.1	62.7	64.3	65.9	66.7	67.4
97.5°	94.3	95.3	96.4	97.4	98.4	99.6	100.8	101.9	103.1	104.0	104.9
100°	122.3	123.4	124.6	125.8	126.9	127.9	128.9	129.8	130.8	131.4	132.1
102.5°	153.8	154.5	155.2	156.0	156.9	158.3	159.5	160.9	162.2	162.7	163.4
105°	200.6	201.1	201.4	201.9	203.0	204.7	206.5	208.3	210.1	210.1	210.1
107.5°	255.4	255.6	255.8	256.1	256.5	257.3	258.0	258.7	259.4	260.0	260.6
110°	289.7	290.1	290.4	290.9	291.2	291.7	292.0	292.5	292.8	293.6	294.4



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	325.1	325.4	325.6	325.8	326.0	326.1	326.2	326.3	326.3	327.3	328.2
115°	378.9	379.5	380.0	380.7	380.8	380.4	380.0	379.6	379.2	379.4	379.6
117.5°	432.5	432.8	433.3	433.6	433.5	433.1	432.6	432.0	431.5	431.5	431.4
120°	466.7	467.9	469.1	470.3	470.4	469.4	468.4	467.4	466.5	466.2	466.0
122.5°	501.3	502.1	503.0	503.9	504.1	503.5	503.0	502.6	502.0	501.5	501.0
125°	554.3	554.8	555.4	556.0	556.2	555.7	555.4	554.9	554.6	553.8	552.9
127.5°	604.0	605.3	606.5	607.9	608.2	607.8	607.4	607.0	606.5	605.4	604.3
130°	637.1	638.7	640.2	641.9	642.4	641.8	641.1	640.6	640.0	639.2	638.4
132.5°	669.9	671.5	673.1	674.7	675.2	674.8	674.3	673.9	673.4	672.5	671.5
135°	719.5	720.7	721.8	723.1	723.5	723.4	723.2	723.0	722.7	722.0	721.2
137.5°	765.6	766.6	767.6	768.6	769.3	769.8	770.3	770.9	771.3	770.5	769.7
140°	797.6	798.6	799.6	800.6	801.2	801.4	801.6	801.8	802.0	801.8	801.6
142.5°	826.8	827.9	828.8	829.8	830.5	830.8	831.2	831.5	831.9	831.7	831.5
145°	871.8	872.2	872.6	873.0	873.5	874.1	874.7	875.3	875.8	875.7	875.5
147.5°	912.0	912.8	913.5	914.2	914.8	915.3	915.9	916.4	917.0	917.0	917.0
150°	939.5	939.9	940.2	940.7	941.0	941.5	941.8	942.3	942.6	942.6	942.6
152.5°	962.4	963.0	963.5	964.0	964.5	964.7	964.9	965.2	965.5	965.7	966.1
155°	997.8	997.8	997.8	997.8	997.9	998.1	998.3	998.5	998.7	999.5	1000.3
157.5°	1028.2	1028.0	1027.7	1027.5	1027.4	1027.6	1027.8	1028.0	1028.1	1028.9	1029.7
160°	1047.2	1046.9	1046.5	1046.1	1045.9	1045.9	1045.9	1045.9	1045.9	1046.9	1047.8
162.5°	1064.2	1063.6	1063.1	1062.6	1062.4	1062.5	1062.7	1062.8	1063.0	1064.0	1065.0
165°	1086.2	1085.7	1085.0	1084.5	1084.1	1084.1	1084.1	1084.1	1084.1	1085.3	1086.5
167.5°	1103.7	1102.9	1102.1	1101.3	1101.0	1101.2	1101.3	1101.4	1101.6	1102.9	1104.0
170°	1113.7	1112.9	1112.1	1111.3	1110.9	1110.9	1110.9	1110.9	1110.9	1112.2	1113.7
172.5°	1121.5	1120.7	1119.9	1119.1	1118.7	1118.7	1118.7	1118.7	1118.7	1119.9	1121.1
175°	1129.6	1128.8	1128.1	1127.3	1126.9	1126.9	1126.9	1126.9	1126.9	1128.1	1129.3
177.5°	1133.2	1132.6	1131.9	1131.3	1131.0	1131.0	1131.0	1131.0	1131.0	1131.9	1132.9
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4	1446.4
2.5°	1522.2	1522.7	1528.9	1533.4	1531.2	1533.9	1535.1
5°	1663.0	1688.3	1701.6	1711.4	1712.1	1712.8	1718.4
7.5°	1862.8	1889.8	1909.6	1939.6	1948.6	1958.7	1955.8
10°	2008.6	2048.4	2082.9	2101.0	2120.7	2149.4	2126.3
12.5°	2144.7	2215.5	2267.8	2296.2	2314.6	2320.4	2309.1
15°	2369.5	2461.9	2511.7	2510.3	2573.4	2600.8	2558.0
17.5°	2575.5	2660.9	2729.3	2764.3	2816.8	2828.5	2823.2
20°	2701.6	2794.9	2848.1	2908.4	2935.7	2960.2	2964.4
22.5°	2810.4	2894.0	2951.3	3001.4	3024.3	3035.9	3043.0
25°	2922.4	2988.3	3022.6	3040.1	3046.4	3045.0	3035.9
27.5°	2914.6	2919.7	2881.9	2844.7	2811.6	2774.1	2761.2
30°	2839.0	2780.1	2675.0	2615.5	2527.8	2458.4	2486.4
32.5°	2640.0	2522.8	2404.8	2274.6	2166.8	2136.1	2105.2
35°	2253.1	2047.1	1926.5	1786.4	1730.3	1674.3	1635.7
37.5°	1822.8	1663.5	1520.5	1428.8	1372.6	1337.1	1318.1
40°	1576.1	1432.4	1314.7	1240.5	1197.7	1157.7	1152.2
42.5°	1379.4	1245.8	1157.2	1098.1	1056.9	1040.0	1027.7
45°	1129.7	1036.5	977.0	934.9	907.6	897.1	883.1
47.5°	956.2	890.3	845.6	817.0	796.4	788.5	787.5
50°	859.2	804.5	771.6	749.1	733.1	730.2	719.1
52.5°	786.3	739.0	713.3	693.7	682.1	674.2	670.8
55°	682.6	651.0	627.9	616.7	607.6	599.9	599.9
57.5°	597.3	570.9	555.6	546.1	543.2	537.8	534.3
60°	544.6	522.1	510.2	501.8	496.1	496.9	490.5
62.5°	492.9	478.4	467.0	458.6	451.9	452.0	452.5
65°	419.8	408.6	400.2	397.3	393.2	388.3	389.7
67.5°	355.7	345.2	338.7	333.9	332.4	329.8	333.9
70°	309.8	302.0	297.1	292.9	291.5	292.2	295.8
72.5°	267.7	262.3	259.0	257.1	254.0	254.1	256.5
75°	210.3	206.1	203.2	201.2	200.5	200.5	200.5
77.5°	154.4	153.5	152.2	149.1	149.3	150.1	150.3
80°	122.0	119.8	119.1	117.7	115.7	114.2	117.7
82.5°	91.1	89.0	88.3	88.0	84.8	84.5	87.5
85°	49.0	47.0	47.6	47.0	47.0	46.3	46.3
87.5°	22.1	21.8	21.3	21.9	21.4	21.0	22.2
90°	23.7	24.5	25.1	25.5	25.9	26.3	26.7
92.5°	36.1	36.7	36.9	36.6	36.5	36.2	35.9
95°	68.2	69.0	69.5	69.5	69.5	69.5	69.5
97.5°	105.8	106.7	107.1	107.1	107.0	106.9	106.8
100°	132.6	133.2	133.8	134.1	134.5	134.9	135.3
102.5°	164.0	164.5	164.8	164.7	164.6	164.6	164.5
105°	210.1	210.1	210.3	210.6	211.1	211.4	211.9
107.5°	261.3	261.9	262.1	261.9	261.6	261.4	261.2
110°	295.2	296.0	296.2	295.8	295.4	295.1	294.6



TEST NUMBER: P332073-940

CATALOG NUMBER: S123DIP-S1165D1025U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	329.1	330.1	330.6	330.5	330.4	330.3	330.2
115°	379.8	380.0	380.0	379.8	379.6	379.4	379.2
117.5°	431.4	431.4	431.1	430.5	430.0	429.4	428.8
120°	465.8	465.7	465.3	464.9	464.6	464.1	463.8
122.5°	500.5	500.0	499.4	498.9	498.3	497.8	497.2
125°	552.1	551.3	550.5	549.8	549.0	548.2	547.4
127.5°	603.2	602.1	601.1	600.2	599.2	598.3	597.4
130°	637.6	636.9	635.7	634.4	632.9	631.6	630.2
132.5°	670.7	669.7	668.7	667.6	666.6	665.5	664.4
135°	720.4	719.6	719.0	718.6	718.2	717.8	717.5
137.5°	768.9	768.0	767.2	766.5	765.7	765.0	764.3
140°	801.4	801.2	800.4	799.1	797.6	796.3	794.9
142.5°	831.3	831.1	830.5	829.4	828.3	827.2	826.2
145°	875.3	875.0	874.6	873.8	873.0	872.2	871.4
147.5°	917.0	917.0	916.4	915.3	914.0	912.8	911.7
150°	942.6	942.6	942.0	940.8	939.7	938.4	937.3
152.5°	966.3	966.7	966.3	965.3	964.3	963.2	962.2
155°	1001.1	1001.8	1001.6	1000.2	998.8	997.4	996.0
157.5°	1030.6	1031.4	1031.3	1030.2	1029.0	1028.0	1026.8
160°	1048.8	1049.8	1049.9	1049.2	1048.4	1047.6	1046.8
162.5°	1066.0	1066.9	1066.8	1065.5	1064.3	1063.0	1061.8
165°	1087.7	1088.9	1088.8	1087.4	1086.0	1084.7	1083.3
167.5°	1105.3	1106.5	1106.5	1105.3	1104.0	1102.9	1101.6
170°	1115.0	1116.4	1116.4	1115.0	1113.7	1112.2	1110.9
172.5°	1122.4	1123.6	1123.6	1122.1	1120.8	1119.4	1117.9
175°	1130.4	1131.7	1131.5	1130.2	1128.7	1127.4	1126.0
177.5°	1133.8	1134.8	1134.7	1133.6	1132.5	1131.4	1130.2
180°	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1	1133.1

(END OF REPORT)