

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: P332853-935

Luminaire Tested: **S124DIW-S1195D1340U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332853-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1195D1340U935-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9201.5 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

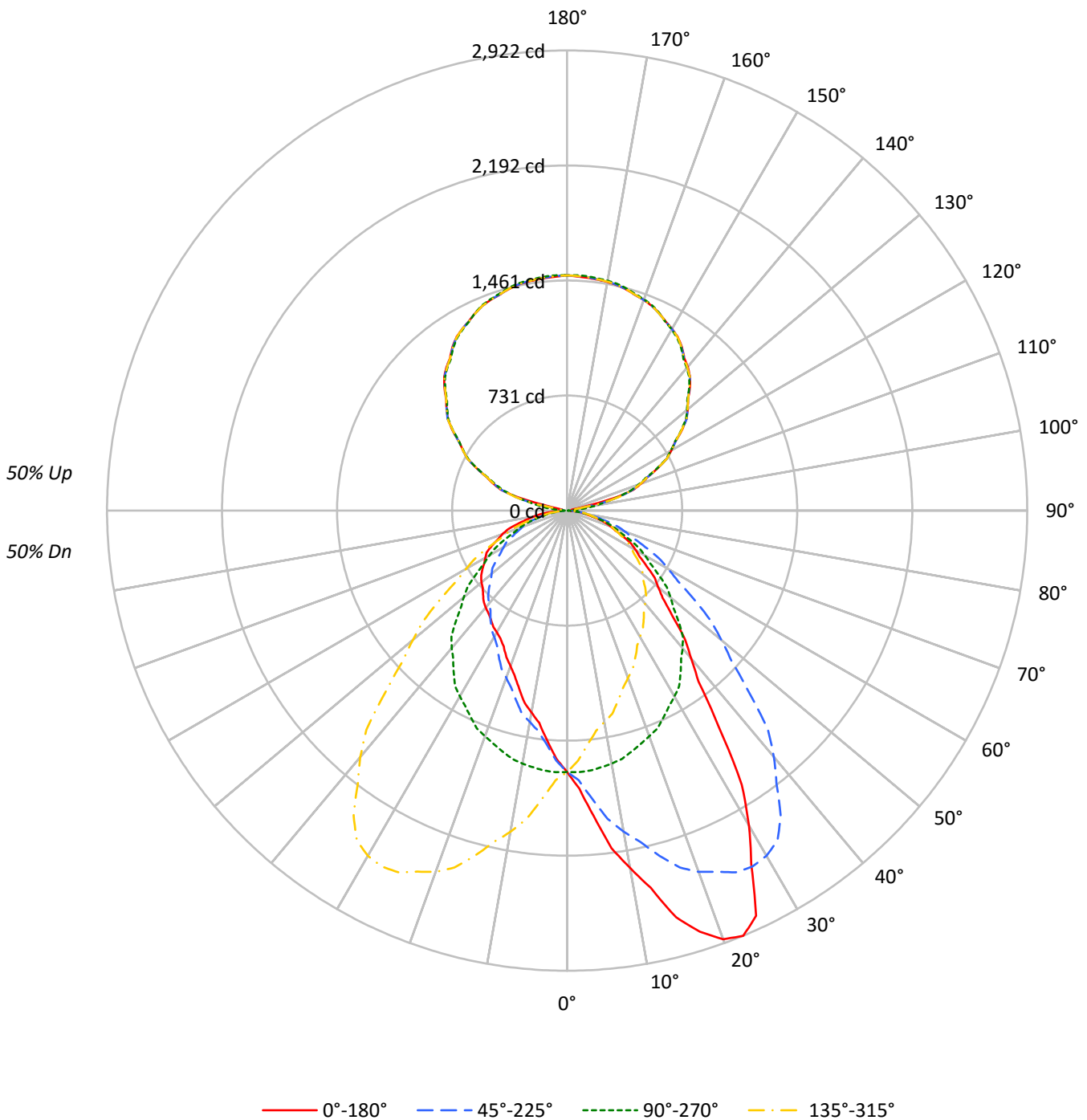
Input Watts (W): 76.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50					50			
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	50	49	48	42					42			
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36					36			
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31					31			
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	35	32	30	26					26			
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23					23			
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	20					20			
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18					18			
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16					16			
9	51	39	31	26	47	36	29	25	31	26	22	27	23	19	22	19	17	15					15			
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13					13			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13397	13397	13397	13397
5°	15776	13431	11854	13431
10°	18889	13373	10673	13373
15°	22349	13237	9802	13237
20°	24887	13099	9024	13099
25°	25289	12896	8487	12896
30°	21519	12701	8318	12701
35°	16544	12384	8319	12384
40°	12896	12012	8476	12012
45°	10752	11451	8617	11451
50°	9463	10766	8911	10766
55°	8670	9947	9270	9947
60°	8125	9213	9700	9213
65°	7564	8392	10059	8392
70°	6911	7579	10286	7579
75°	6173	6669	10162	6669
80°	5174	5463	9842	5463
85°	3816	3946	9429	3946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	1.8
10°-20°	498.3	5.4
20°-30°	790.2	8.6
30°-40°	879.4	9.6
40°-50°	800.5	8.7
50°-60°	654.1	7.1
60°-70°	467.0	5.1
70°-80°	257.1	2.8
80°-90°	74.5	0.8
90°-100°	51.1	0.6
100°-110°	325.6	3.5
110°-120°	622.9	6.8
120°-130°	790.7	8.6
130°-140°	846.0	9.2
140°-150°	791.1	8.6
150°-160°	638.0	6.9
160°-170°	411.5	4.5
170°-180°	141.8	1.5
0°-30°	1450.2	15.8
0°-40°	2329.6	25.3
0°-60°	3784.2	41.1
0°-90°	4582.8	49.8
90°-120°	999.5	10.9
90°-150°	3427.4	37.2
90°-180°	4619.0	50.2
0°-180°	9201.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1660	1660	1660	1660	1660	
5°	1947	1657	1463	1657	1947	198
15°	2674	1584	1173	1584	2674	756
25°	2839	1448	953	1448	2839	1252
35°	1679	1257	844	1257	1679	1066
45°	942	1003	755	1003	942	742
55°	616	707	659	707	616	556
65°	396	439	527	439	396	392
75°	198	214	326	214	198	210
85°	41	43	102	43	41	51
90°	34	3	34	3	34	16
95°	32	61	32	61	32	26
105°	318	336	318	336	318	278
115°	632	628	632	628	632	626
125°	889	882	889	882	889	792
135°	1102	1094	1102	1094	1102	848
145°	1269	1262	1269	1262	1269	793
155°	1383	1384	1383	1384	1383	638
165°	1453	1460	1453	1460	1453	410
175°	1484	1493	1484	1493	1484	141
180°	1493	1493	1493	1493	1493	



TEST NUMBER: P332853-935

CATALOG NUMBER: S124DIW-S1195D1340U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1766.2	1765.6	1760.1	1759.0	1755.1	1750.2	1749.1	1740.3	1722.7	1714.4	1712.3
5°	1946.8	1960.6	1942.7	1939.2	1937.2	1914.5	1902.8	1889.0	1857.4	1838.9	1824.5
7.5°	2162.4	2164.0	2156.2	2149.9	2132.4	2112.6	2082.9	2051.3	2013.6	1974.4	1944.9
10°	2304.3	2309.8	2300.9	2299.5	2264.4	2242.4	2198.4	2161.3	2118.7	2071.2	2027.9
12.5°	2453.8	2446.2	2441.6	2412.2	2405.7	2365.6	2314.5	2276.2	2210.5	2155.9	2098.3
15°	2674.1	2659.0	2649.4	2608.8	2588.9	2533.1	2478.9	2437.0	2351.0	2269.3	2207.3
17.5°	2803.3	2818.5	2796.2	2779.6	2728.0	2689.0	2633.5	2545.5	2478.2	2376.6	2298.5
20°	2896.8	2898.2	2885.8	2868.7	2828.1	2778.6	2718.1	2621.8	2541.4	2440.4	2333.1
22.5°	2922.1	2922.4	2917.2	2901.1	2870.4	2830.3	2769.2	2689.0	2591.5	2481.7	2374.4
25°	2839.1	2836.3	2842.5	2860.4	2848.7	2836.3	2801.3	2741.5	2650.8	2534.5	2419.1
27.5°	2530.6	2549.5	2584.5	2628.5	2670.8	2703.1	2712.2	2699.9	2643.7	2548.2	2427.2
30°	2308.4	2331.8	2357.9	2401.8	2487.2	2535.9	2589.5	2630.1	2607.5	2531.2	2418.4
32.5°	2064.2	2070.0	2108.8	2158.8	2236.9	2330.8	2415.8	2498.1	2525.5	2485.4	2391.4
35°	1678.7	1688.3	1730.3	1779.8	1875.3	1990.1	2118.0	2232.1	2326.2	2364.0	2315.9
37.5°	1369.9	1397.6	1427.1	1480.3	1564.4	1667.8	1800.7	1948.4	2088.7	2182.7	2198.6
40°	1223.7	1240.8	1262.1	1302.7	1374.2	1475.9	1590.0	1759.1	1908.3	2043.1	2087.1
42.5°	1108.1	1118.2	1131.3	1167.9	1222.4	1323.6	1427.8	1576.6	1726.3	1887.4	1961.1
45°	941.8	952.1	974.0	995.4	1036.6	1106.7	1203.7	1326.0	1476.6	1631.9	1768.1
47.5°	821.7	828.2	841.3	864.1	899.1	945.4	1024.2	1126.4	1266.0	1416.8	1561.9
50°	753.5	758.9	769.2	789.9	816.7	857.9	922.6	1018.0	1127.4	1279.3	1421.6
52.5°	699.6	701.7	709.3	723.3	744.6	779.3	832.3	911.4	1013.0	1148.4	1290.2
55°	616.0	618.7	625.6	635.8	654.4	676.4	717.0	776.1	864.8	982.3	1105.4
57.5°	547.2	549.1	554.9	558.9	574.1	592.0	623.2	665.5	732.6	832.3	942.2
60°	503.2	501.8	508.7	512.1	522.5	537.6	561.6	602.2	660.6	741.1	842.1
62.5°	460.3	458.4	464.2	468.7	474.6	487.5	507.2	539.0	586.3	659.1	746.4
65°	396.0	393.2	396.7	402.2	407.7	414.5	429.0	457.1	495.0	547.2	613.9
67.5°	331.3	334.2	334.8	337.5	340.7	350.1	359.9	379.9	406.6	448.3	504.9
70°	292.8	293.5	296.3	296.3	298.3	306.6	314.9	326.5	352.7	391.2	437.2
72.5°	254.3	257.3	256.1	258.3	259.8	265.4	271.4	282.5	304.8	333.4	372.3
75°	197.9	200.0	200.0	200.7	202.8	204.8	209.7	217.9	233.8	255.0	281.8
77.5°	144.4	144.6	145.6	148.1	148.1	151.4	155.0	161.5	169.4	184.0	200.4
80°	111.3	112.7	112.0	113.4	113.4	116.1	117.5	125.8	129.2	138.9	151.9
82.5°	81.7	83.0	82.9	84.8	85.9	86.4	88.4	91.7	95.1	103.7	109.0
85°	41.2	42.6	41.2	42.6	44.7	45.4	47.4	48.1	50.9	53.0	57.8
87.5°	18.8	20.3	20.2	20.7	21.7	22.0	22.3	21.4	23.3	23.6	25.4
90°	33.5	33.0	32.5	32.0	31.5	30.6	29.0	27.6	26.1	24.5	22.6
92.5°	30.8	30.7	30.7	30.6	30.4	29.6	28.2	26.7	25.1	23.7	21.7
95°	32.4	32.1	31.9	31.6	31.4	30.6	29.0	27.6	26.1	24.5	24.3
97.5°	31.3	31.0	30.7	30.6	30.3	30.0	30.0	29.8	29.6	29.4	57.2
100°	31.3	31.0	30.7	30.6	30.3	32.3	36.5	40.7	44.9	49.2	83.3
102.5°	32.2	32.1	32.0	32.0	31.9	54.7	100.2	145.8	191.2	236.8	241.3
105°	318.3	327.2	336.1	345.1	354.0	357.4	355.2	352.9	350.7	348.4	347.2
107.5°	443.6	442.6	441.7	440.7	439.8	438.8	437.7	436.6	435.5	434.5	432.7
110°	498.1	497.3	496.6	495.8	495.1	494.5	494.0	493.5	493.0	492.5	491.0



TEST NUMBER: P332853-935

CATALOG NUMBER: S124DIW-S1195D1340U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	552.6	551.6	550.7	549.7	548.8	548.4	548.5	548.5	548.7	548.8	548.1
115°	632.1	632.1	632.1	632.1	632.1	631.8	631.4	630.9	630.3	629.8	630.1
117.5°	712.9	713.1	713.2	713.3	713.3	713.4	713.5	713.6	713.8	713.9	713.3
120°	763.9	764.4	764.8	765.3	765.9	765.9	765.3	764.8	764.4	763.9	764.1
122.5°	813.9	814.4	814.9	815.4	815.9	816.0	815.7	815.4	815.1	814.8	814.4
125°	889.0	888.7	888.5	888.2	887.9	887.4	886.7	886.0	885.2	884.5	884.9
127.5°	954.8	955.0	955.2	955.5	955.6	955.8	956.0	956.1	956.2	956.4	955.3
130°	999.5	999.5	999.5	999.5	999.5	999.4	999.1	998.8	998.7	998.4	997.6
132.5°	1040.6	1040.8	1041.0	1041.2	1041.4	1041.4	1041.1	1040.9	1040.6	1040.3	1039.4
135°	1102.3	1101.7	1101.2	1100.8	1100.3	1099.8	1099.2	1098.8	1098.3	1097.8	1096.8
137.5°	1154.9	1155.1	1155.3	1155.4	1155.5	1155.4	1154.8	1154.3	1153.7	1153.1	1152.1
140°	1191.6	1191.4	1191.1	1190.8	1190.6	1190.1	1189.4	1188.6	1187.8	1187.1	1186.6
142.5°	1221.9	1221.9	1221.8	1221.8	1221.8	1221.5	1220.9	1220.4	1219.9	1219.3	1219.0
145°	1268.7	1268.2	1267.7	1267.1	1266.7	1266.3	1266.0	1265.8	1265.6	1265.3	1265.3
147.5°	1307.3	1307.0	1306.8	1306.6	1306.3	1306.1	1305.9	1305.7	1305.4	1305.3	1305.5
150°	1332.3	1332.1	1331.8	1331.5	1331.3	1331.2	1331.2	1331.2	1331.2	1331.2	1331.5
152.5°	1353.8	1353.9	1354.0	1354.2	1354.4	1354.2	1353.8	1353.4	1353.1	1352.6	1353.1
155°	1382.6	1383.3	1384.1	1384.8	1385.5	1385.4	1384.4	1383.5	1382.4	1381.5	1382.2
157.5°	1406.7	1408.0	1409.3	1410.6	1411.9	1411.9	1410.6	1409.3	1408.0	1406.7	1407.6
160°	1422.8	1424.3	1425.7	1427.2	1428.7	1428.7	1427.2	1425.7	1424.3	1422.8	1423.0
162.5°	1435.3	1436.9	1438.6	1440.4	1442.0	1442.1	1440.6	1439.2	1437.6	1436.1	1436.4
165°	1452.9	1455.2	1457.4	1459.7	1461.8	1462.0	1460.0	1458.0	1456.0	1454.1	1454.1
167.5°	1466.1	1468.6	1471.0	1473.5	1476.0	1476.2	1473.9	1471.8	1469.6	1467.4	1467.6
170°	1474.1	1476.6	1479.1	1481.6	1484.0	1484.3	1482.3	1480.3	1478.3	1476.4	1476.1
172.5°	1478.6	1481.3	1483.9	1486.6	1489.4	1489.7	1487.7	1485.7	1483.7	1481.7	1481.4
175°	1484.2	1487.1	1490.1	1493.1	1496.1	1496.5	1494.3	1492.0	1489.8	1487.5	1487.3
177.5°	1487.7	1490.1	1492.5	1494.9	1497.3	1497.7	1496.1	1494.5	1492.9	1491.3	1490.9
180°	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1



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CATALOG NUMBER: S124DIW-S1195D1340U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1712.8	1705.1	1699.6	1695.2	1683.1	1675.9	1670.4	1662.8	1654.0	1644.6	1633.1
5°	1810.0	1786.7	1769.4	1743.4	1718.6	1698.0	1676.6	1657.4	1634.0	1608.6	1590.0
7.5°	1912.2	1877.4	1832.8	1794.2	1750.8	1713.0	1679.1	1644.5	1608.4	1573.6	1541.5
10°	1977.0	1932.3	1882.8	1824.5	1769.4	1720.6	1675.2	1631.3	1588.6	1546.0	1509.6
12.5°	2046.9	1991.2	1918.0	1849.8	1788.1	1722.9	1668.1	1614.2	1562.8	1518.0	1475.5
15°	2140.7	2060.2	1975.7	1884.2	1803.1	1726.8	1651.9	1583.8	1526.1	1467.0	1425.7
17.5°	2198.3	2098.8	2002.1	1906.5	1808.4	1712.1	1631.3	1552.8	1480.5	1421.8	1369.8
20°	2236.2	2137.3	2016.9	1921.4	1804.5	1705.6	1612.1	1524.7	1449.1	1386.6	1332.9
22.5°	2269.3	2154.8	2034.5	1908.8	1792.4	1687.4	1585.1	1497.2	1420.0	1354.1	1302.7
25°	2287.1	2155.8	2025.2	1900.1	1768.1	1643.6	1550.8	1447.8	1365.2	1295.8	1240.8
27.5°	2289.1	2148.6	2000.9	1861.8	1725.6	1609.7	1492.5	1400.4	1314.7	1241.4	1188.6
30°	2282.9	2136.6	1977.7	1827.2	1690.4	1564.6	1462.8	1362.5	1275.2	1202.3	1147.3
32.5°	2263.7	2111.3	1948.0	1788.7	1646.9	1523.9	1418.8	1323.4	1238.4	1166.6	1108.8
35°	2208.0	2057.4	1883.5	1717.9	1572.9	1448.5	1353.6	1256.6	1171.4	1103.4	1047.7
37.5°	2121.0	1984.9	1808.1	1636.7	1494.2	1369.2	1275.2	1187.6	1110.8	1041.6	984.6
40°	2045.1	1925.5	1748.2	1581.1	1427.1	1308.2	1220.2	1139.8	1063.4	998.2	943.8
42.5°	1957.7	1853.5	1689.9	1512.9	1364.4	1244.9	1159.2	1086.9	1015.0	954.7	900.4
45°	1801.7	1733.0	1579.1	1415.4	1260.8	1148.0	1066.2	1003.0	942.5	883.4	838.0
47.5°	1622.5	1588.4	1458.7	1303.4	1156.5	1045.4	974.5	916.1	863.0	813.0	772.9
50°	1502.0	1485.6	1373.5	1223.7	1083.4	978.9	907.4	857.2	811.8	767.8	730.0
52.5°	1383.3	1382.7	1281.7	1144.4	1014.7	914.0	843.1	796.2	756.9	721.1	687.2
55°	1201.6	1220.9	1141.9	1019.4	903.3	812.5	748.6	706.7	679.2	649.6	624.2
57.5°	1034.8	1066.8	1001.6	893.8	796.9	713.3	657.6	626.1	596.8	578.9	560.4
60°	926.0	956.2	905.3	814.6	723.2	651.7	598.7	570.6	545.1	532.8	519.7
62.5°	829.1	856.1	818.5	734.3	655.0	586.3	541.6	514.4	497.3	483.8	475.2
65°	690.9	713.6	681.2	620.1	552.0	497.1	460.5	439.3	422.8	417.2	407.7
67.5°	558.4	579.1	561.6	509.6	455.0	413.5	385.0	364.5	354.7	349.9	343.0
70°	479.8	500.4	481.9	436.5	394.6	359.6	332.7	321.1	310.7	308.7	299.0
72.5°	413.3	427.3	408.7	373.2	337.4	307.8	287.1	274.8	269.5	265.8	260.5
75°	310.0	322.4	310.0	282.5	257.1	236.5	218.6	213.8	207.6	205.5	202.1
77.5°	219.5	230.1	220.7	203.5	184.5	168.6	158.9	152.7	151.4	147.8	149.5
80°	167.7	174.6	165.7	153.9	138.9	127.9	121.0	117.5	113.4	112.0	114.8
82.5°	120.5	123.5	118.9	111.1	99.8	92.6	88.0	84.0	83.2	83.4	83.4
85°	62.6	61.9	61.2	54.3	50.9	46.1	43.3	42.6	41.9	43.3	44.7
87.5°	25.1	25.1	24.2	21.5	19.4	17.1	16.1	15.0	16.1	17.1	18.3
90°	20.6	18.6	16.6	14.3	11.5	8.8	6.1	3.4	6.1	8.8	11.5
92.5°	19.7	17.7	15.8	14.6	14.6	14.4	14.2	14.0	14.2	14.4	14.6
95°	24.1	23.8	23.6	27.6	36.1	44.5	53.0	61.4	53.0	44.5	36.1
97.5°	84.9	112.5	140.3	151.4	146.2	140.9	135.7	130.4	135.7	140.9	146.2
100°	117.6	151.9	186.1	201.0	196.6	192.1	187.6	183.1	187.6	192.1	196.6
102.5°	245.7	250.1	254.6	255.2	251.9	248.7	245.4	242.1	245.4	248.7	251.9
105°	345.9	344.7	343.5	342.1	340.6	339.1	337.6	336.1	337.6	339.1	340.6
107.5°	431.0	429.4	427.7	426.5	425.7	425.0	424.2	423.4	424.2	425.0	425.7
110°	489.5	488.0	486.6	485.4	484.7	484.0	483.2	482.4	483.2	484.0	484.7



TEST NUMBER: P332853-935

CATALOG NUMBER: S124DIW-S1195D1340U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	547.4	546.7	546.0	545.0	543.6	542.3	541.0	539.6	541.0	542.3	543.6
115°	630.3	630.6	630.9	630.6	629.8	629.1	628.4	627.6	628.4	629.1	629.8
117.5°	712.7	712.2	711.6	710.8	709.9	708.9	707.9	706.9	707.9	708.9	709.9
120°	764.4	764.7	764.8	764.5	763.5	762.5	761.5	760.5	761.5	762.5	763.5
122.5°	814.1	813.7	813.4	813.0	812.4	811.8	811.1	810.5	811.1	811.8	812.4
125°	885.5	886.0	886.5	886.2	885.2	884.2	883.2	882.3	883.2	884.2	885.2
127.5°	954.1	953.0	951.8	951.1	950.9	950.6	950.4	950.1	950.4	950.6	950.9
130°	996.9	996.2	995.4	994.9	994.6	994.5	994.2	993.9	994.2	994.5	994.6
132.5°	1038.5	1037.6	1036.6	1035.9	1035.4	1035.0	1034.6	1034.1	1034.6	1035.0	1035.4
135°	1095.8	1094.8	1093.8	1093.5	1093.7	1093.9	1094.2	1094.4	1094.2	1093.9	1093.7
137.5°	1151.0	1149.9	1148.8	1148.2	1148.1	1148.0	1147.9	1147.8	1147.9	1148.0	1148.1
140°	1186.1	1185.6	1185.2	1184.6	1184.1	1183.6	1183.2	1182.7	1183.2	1183.6	1184.1
142.5°	1218.7	1218.4	1218.1	1217.5	1216.6	1215.7	1214.8	1213.9	1214.8	1215.7	1216.6
145°	1265.3	1265.3	1265.3	1264.9	1264.2	1263.4	1262.7	1262.0	1262.7	1263.4	1264.2
147.5°	1305.8	1306.1	1306.3	1305.7	1304.3	1303.0	1301.5	1300.1	1301.5	1303.0	1304.3
150°	1331.7	1332.0	1332.1	1331.8	1330.8	1329.8	1328.9	1327.8	1328.9	1329.8	1330.8
152.5°	1353.5	1354.0	1354.4	1354.3	1353.4	1352.6	1351.9	1351.1	1351.9	1352.6	1353.4
155°	1382.9	1383.7	1384.4	1384.7	1384.4	1384.1	1383.9	1383.7	1383.9	1384.1	1384.4
157.5°	1408.3	1409.2	1410.1	1410.6	1410.7	1410.8	1411.0	1411.2	1411.0	1410.8	1410.7
160°	1423.2	1423.5	1423.7	1424.3	1425.0	1425.7	1426.5	1427.2	1426.5	1425.7	1425.0
162.5°	1436.7	1436.9	1437.2	1437.8	1438.7	1439.7	1440.5	1441.5	1440.5	1439.7	1438.7
165°	1454.1	1454.1	1454.1	1454.7	1455.9	1457.2	1458.4	1459.7	1458.4	1457.2	1455.9
167.5°	1467.7	1467.9	1468.0	1468.8	1470.1	1471.4	1472.7	1473.9	1472.7	1471.4	1470.1
170°	1475.8	1475.6	1475.4	1476.0	1477.5	1478.9	1480.5	1482.0	1480.5	1478.9	1477.5
172.5°	1481.3	1481.0	1480.7	1481.4	1482.8	1484.4	1485.8	1487.3	1485.8	1484.4	1482.8
175°	1487.0	1486.8	1486.5	1487.1	1488.7	1490.1	1491.6	1493.1	1491.6	1490.1	1488.7
177.5°	1490.6	1490.1	1489.7	1490.2	1491.6	1493.0	1494.4	1495.8	1494.4	1493.0	1491.6
180°	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1



TEST NUMBER: P332853-935

CATALOG NUMBER: S124DIW-S1195D1340U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1627.5	1622.6	1615.5	1605.6	1597.3	1588.5	1586.3	1583.0	1589.6	1584.2	1582.4
5°	1574.3	1559.8	1541.2	1519.9	1507.5	1489.7	1486.3	1479.4	1472.5	1471.8	1464.9
7.5°	1517.7	1496.5	1472.2	1450.4	1430.4	1410.9	1398.1	1395.3	1385.2	1379.2	1372.3
10°	1481.4	1455.3	1427.1	1406.5	1383.1	1362.5	1348.1	1339.8	1332.9	1325.3	1318.5
12.5°	1438.6	1410.7	1387.5	1365.2	1337.5	1321.8	1298.0	1283.8	1282.4	1282.5	1264.6
15°	1388.6	1361.2	1325.3	1293.7	1278.6	1248.4	1235.3	1218.8	1208.5	1198.2	1190.0
17.5°	1331.5	1297.4	1269.4	1233.1	1204.3	1180.2	1163.0	1153.1	1137.6	1123.0	1112.4
20°	1295.8	1259.4	1229.9	1191.3	1159.7	1130.1	1115.7	1102.0	1090.3	1077.9	1066.2
22.5°	1259.5	1221.4	1185.3	1147.9	1118.4	1087.3	1073.3	1054.6	1043.5	1036.6	1024.9
25°	1202.3	1161.1	1119.8	1084.1	1053.9	1026.3	1007.8	993.3	980.9	975.4	967.9
27.5°	1140.1	1099.2	1059.4	1018.7	984.4	964.5	949.6	938.7	931.6	924.3	920.9
30°	1100.6	1058.0	1015.4	977.5	945.9	926.0	912.2	904.7	899.1	895.7	892.3
32.5°	1060.4	1018.4	973.5	939.0	910.7	892.9	882.5	874.9	872.2	871.0	869.8
35°	996.1	953.5	912.2	881.3	854.5	847.6	838.7	834.6	833.2	838.0	840.1
37.5°	933.8	894.2	856.3	826.3	808.7	798.7	795.7	795.7	800.7	804.9	809.9
40°	893.6	855.1	819.4	793.3	776.8	770.6	769.2	772.7	778.2	783.0	788.5
42.5°	854.6	816.7	784.2	759.7	748.2	742.5	743.4	746.8	754.5	760.4	768.7
45°	794.0	762.3	730.7	710.8	701.2	702.6	702.6	708.8	716.3	725.2	734.2
47.5°	736.9	705.1	679.1	662.3	657.3	656.1	660.0	668.0	678.9	689.9	702.4
50°	698.4	668.2	645.5	630.3	624.9	627.0	632.4	640.0	653.1	666.8	679.8
52.5°	659.4	631.9	610.9	596.8	593.0	596.7	602.2	614.2	625.6	640.4	656.3
55°	598.7	575.4	558.9	548.5	547.2	549.2	555.4	568.5	585.0	603.6	618.7
57.5°	538.4	518.8	503.8	496.6	497.3	499.2	509.4	525.0	542.5	562.3	581.9
60°	497.7	479.8	467.4	461.9	462.6	466.7	479.1	493.6	515.6	534.9	555.4
62.5°	459.2	443.5	431.7	426.8	425.8	434.9	446.7	461.7	483.7	505.1	527.4
65°	397.4	385.0	375.3	372.6	374.6	381.5	396.7	416.6	435.1	457.8	481.2
67.5°	336.8	326.7	320.0	321.3	323.8	334.0	346.6	363.8	384.9	408.4	431.4
70°	298.3	288.7	283.2	283.9	288.0	300.4	311.4	328.6	351.3	375.3	394.6
72.5°	258.7	252.4	247.5	250.4	254.5	263.0	276.7	293.9	313.9	336.3	356.6
75°	198.6	198.6	195.9	197.9	204.1	212.4	222.7	240.6	260.5	278.4	294.9
77.5°	147.4	145.9	147.7	150.2	153.7	163.5	175.3	188.0	203.1	220.9	234.5
80°	112.7	113.4	116.8	121.0	122.3	129.9	142.3	153.9	165.7	180.8	193.9
82.5°	84.7	85.4	87.1	92.4	93.8	101.9	109.9	121.6	132.2	142.3	153.2
85°	46.1	46.1	49.5	51.6	55.0	60.5	65.3	72.2	81.8	88.7	99.0
87.5°	20.5	20.9	23.5	25.1	27.0	30.2	31.6	38.0	40.5	43.5	48.6
90°	14.3	16.6	18.6	20.6	22.6	24.5	26.1	27.6	29.0	30.6	31.5
92.5°	14.6	15.8	17.7	19.7	21.7	23.7	25.1	26.7	28.2	29.6	30.4
95°	27.6	23.6	23.8	24.1	24.3	24.5	26.1	27.6	29.0	30.6	31.4
97.5°	151.4	140.3	112.5	84.9	57.2	29.4	29.6	29.8	30.0	30.0	30.3
100°	201.0	186.1	151.9	117.6	83.3	49.2	44.9	40.7	36.5	32.3	30.3
102.5°	255.2	254.6	250.1	245.7	241.3	236.8	191.2	145.8	100.2	54.7	31.9
105°	342.1	343.5	344.7	345.9	347.2	348.4	350.7	352.9	355.2	357.4	354.0
107.5°	426.5	427.7	429.4	431.0	432.7	434.5	435.5	436.6	437.7	438.8	439.8
110°	485.4	486.6	488.0	489.5	491.0	492.5	493.0	493.5	494.0	494.5	495.1



TEST NUMBER: P332853-935

CATALOG NUMBER: S124DIW-S1195D1340U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	545.0	546.0	546.7	547.4	548.1	548.8	548.7	548.5	548.5	548.4	548.8
115°	630.6	630.9	630.6	630.3	630.1	629.8	630.3	630.9	631.4	631.8	632.1
117.5°	710.8	711.6	712.2	712.7	713.3	713.9	713.8	713.6	713.5	713.4	713.3
120°	764.5	764.8	764.7	764.4	764.1	763.9	764.4	764.8	765.3	765.9	765.9
122.5°	813.0	813.4	813.7	814.1	814.4	814.8	815.1	815.4	815.7	816.0	815.9
125°	886.2	886.5	886.0	885.5	884.9	884.5	885.2	886.0	886.7	887.4	887.9
127.5°	951.1	951.8	953.0	954.1	955.3	956.4	956.2	956.1	956.0	955.8	955.6
130°	994.9	995.4	996.2	996.9	997.6	998.4	998.7	998.8	999.1	999.4	999.5
132.5°	1035.9	1036.6	1037.6	1038.5	1039.4	1040.3	1040.6	1040.9	1041.1	1041.4	1041.4
135°	1093.5	1093.8	1094.8	1095.8	1096.8	1097.8	1098.3	1098.8	1099.2	1099.8	1100.3
137.5°	1148.2	1148.8	1149.9	1151.0	1152.1	1153.1	1153.7	1154.3	1154.8	1155.4	1155.5
140°	1184.6	1185.2	1185.6	1186.1	1186.6	1187.1	1187.8	1188.6	1189.4	1190.1	1190.6
142.5°	1217.5	1218.1	1218.4	1218.7	1219.0	1219.3	1219.9	1220.4	1220.9	1221.5	1221.8
145°	1264.9	1265.3	1265.3	1265.3	1265.3	1265.3	1265.6	1265.8	1266.0	1266.3	1266.7
147.5°	1305.7	1306.3	1306.1	1305.8	1305.5	1305.3	1305.4	1305.7	1305.9	1306.1	1306.3
150°	1331.8	1332.1	1332.0	1331.7	1331.5	1331.2	1331.2	1331.2	1331.2	1331.2	1331.3
152.5°	1354.3	1354.4	1354.0	1353.5	1353.1	1352.6	1353.1	1353.4	1353.8	1354.2	1354.4
155°	1384.7	1384.4	1383.7	1382.9	1382.2	1381.5	1382.4	1383.5	1384.4	1385.4	1385.5
157.5°	1410.6	1410.1	1409.2	1408.3	1407.6	1406.7	1408.0	1409.3	1410.6	1411.9	1411.9
160°	1424.3	1423.7	1423.5	1423.2	1423.0	1422.8	1424.3	1425.7	1427.2	1428.7	1428.7
162.5°	1437.8	1437.2	1436.9	1436.7	1436.4	1436.1	1437.6	1439.2	1440.6	1442.1	1442.0
165°	1454.7	1454.1	1454.1	1454.1	1454.1	1454.1	1456.0	1458.0	1460.0	1462.0	1461.8
167.5°	1468.8	1468.0	1467.9	1467.7	1467.6	1467.4	1469.6	1471.8	1473.9	1476.2	1476.0
170°	1476.0	1475.4	1475.6	1475.8	1476.1	1476.4	1478.3	1480.3	1482.3	1484.3	1484.0
172.5°	1481.4	1480.7	1481.0	1481.3	1481.4	1481.7	1483.7	1485.7	1487.7	1489.7	1489.4
175°	1487.1	1486.5	1486.8	1487.0	1487.3	1487.5	1489.8	1492.0	1494.3	1496.5	1496.1
177.5°	1490.2	1489.7	1490.1	1490.6	1490.9	1491.3	1492.9	1494.5	1496.1	1497.7	1497.3
180°	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1



TEST NUMBER: P332853-935

CATALOG NUMBER: S124DIW-S1195D1340U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1581.4	1580.3	1576.4	1575.9	1576.4	1580.3	1581.4	1582.4	1584.2	1589.6	1583.0
5°	1460.8	1457.3	1455.3	1462.8	1455.3	1457.3	1460.8	1464.9	1471.8	1472.5	1479.4
7.5°	1369.9	1367.2	1361.2	1359.2	1361.2	1367.2	1369.9	1372.3	1379.2	1385.2	1395.3
10°	1311.6	1308.9	1303.4	1302.0	1303.4	1308.9	1311.6	1318.5	1325.3	1332.9	1339.8
12.5°	1255.5	1250.0	1249.0	1250.3	1249.0	1250.0	1255.5	1264.6	1282.5	1282.4	1283.8
15°	1181.0	1178.3	1170.7	1172.8	1170.7	1178.3	1181.0	1190.0	1198.2	1208.5	1218.8
17.5°	1107.6	1104.3	1095.1	1103.2	1095.1	1104.3	1107.6	1112.4	1123.0	1137.6	1153.1
20°	1061.4	1055.9	1051.1	1050.4	1051.1	1055.9	1061.4	1066.2	1077.9	1090.3	1102.0
22.5°	1017.4	1012.4	1012.0	1007.5	1012.0	1012.4	1017.4	1024.9	1036.6	1043.5	1054.6
25°	962.4	957.6	956.2	952.8	956.2	957.6	962.4	967.9	975.4	980.9	993.3
27.5°	920.2	917.8	915.4	916.4	915.4	917.8	920.2	920.9	924.3	931.6	938.7
30°	894.3	893.6	892.3	892.3	892.3	893.6	894.3	892.3	895.7	899.1	904.7
32.5°	872.9	872.8	873.6	873.6	873.6	872.8	872.9	869.8	871.0	872.2	874.9
35°	842.8	844.8	846.2	844.1	846.2	844.8	842.8	840.1	838.0	833.2	834.6
37.5°	815.5	817.6	819.6	821.9	819.6	817.6	815.5	809.9	804.9	800.7	795.7
40°	794.7	799.5	800.8	804.3	800.8	799.5	794.7	788.5	783.0	778.2	772.7
42.5°	774.9	780.2	783.8	784.5	783.8	780.2	774.9	768.7	760.4	754.5	746.8
45°	744.5	750.0	754.8	754.8	754.8	750.0	744.5	734.2	725.2	716.3	708.8
47.5°	713.0	721.0	725.8	727.0	725.8	721.0	713.0	702.4	689.9	678.9	668.0
50°	691.6	701.2	706.0	709.5	706.0	701.2	691.6	679.8	666.8	653.1	640.0
52.5°	670.6	680.3	686.7	688.5	686.7	680.3	670.6	656.3	640.4	625.6	614.2
55°	634.5	648.2	655.8	658.6	655.8	648.2	634.5	618.7	603.6	585.0	568.5
57.5°	600.4	613.0	621.8	623.9	621.8	613.0	600.4	581.9	562.3	542.5	525.0
60°	574.0	587.7	598.7	600.8	598.7	587.7	574.0	555.4	534.9	515.6	493.6
62.5°	547.1	561.4	571.3	576.6	571.3	561.4	547.1	527.4	505.1	483.7	461.7
65°	500.4	514.9	524.5	526.6	524.5	514.9	500.4	481.2	457.8	435.1	416.6
67.5°	449.6	464.0	470.4	474.3	470.4	464.0	449.6	431.4	408.4	384.9	363.8
70°	413.8	425.5	432.4	435.8	432.4	425.5	413.8	394.6	375.3	351.3	328.6
72.5°	373.2	385.4	393.4	394.0	393.4	385.4	373.2	356.6	336.3	313.9	293.9
75°	310.7	321.8	325.8	325.8	325.8	321.8	310.7	294.9	278.4	260.5	240.6
77.5°	246.0	251.6	256.8	258.0	256.8	251.6	246.0	234.5	220.9	203.1	188.0
80°	204.1	207.6	211.7	211.7	211.7	207.6	204.1	193.9	180.8	165.7	153.9
82.5°	161.3	164.2	168.3	167.7	168.3	164.2	161.3	153.2	142.3	132.2	121.6
85°	97.6	103.8	103.1	101.8	103.1	103.8	97.6	99.0	88.7	81.8	72.2
87.5°	50.4	51.1	52.8	54.0	52.8	51.1	50.4	48.6	43.5	40.5	38.0
90°	32.0	32.5	33.0	33.5	33.0	32.5	32.0	31.5	30.6	29.0	27.6
92.5°	30.6	30.7	30.7	30.8	30.7	30.7	30.6	30.4	29.6	28.2	26.7
95°	31.6	31.9	32.1	32.4	32.1	31.9	31.6	31.4	30.6	29.0	27.6
97.5°	30.6	30.7	31.0	31.3	31.0	30.7	30.6	30.3	30.0	30.0	29.8
100°	30.6	30.7	31.0	31.3	31.0	30.7	30.6	30.3	32.3	36.5	40.7
102.5°	32.0	32.0	32.1	32.2	32.1	32.0	32.0	31.9	54.7	100.2	145.8
105°	345.1	336.1	327.2	318.3	327.2	336.1	345.1	354.0	357.4	355.2	352.9
107.5°	440.7	441.7	442.6	443.6	442.6	441.7	440.7	439.8	438.8	437.7	436.6
110°	495.8	496.6	497.3	498.1	497.3	496.6	495.8	495.1	494.5	494.0	493.5



TEST NUMBER: P332853-935

CATALOG NUMBER: S124DIW-S1195D1340U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	549.7	550.7	551.6	552.6	551.6	550.7	549.7	548.8	548.4	548.5	548.5
115°	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	631.8	631.4	630.9
117.5°	713.3	713.2	713.1	712.9	713.1	713.2	713.3	713.3	713.4	713.5	713.6
120°	765.3	764.8	764.4	763.9	764.4	764.8	765.3	765.9	765.9	765.3	764.8
122.5°	815.4	814.9	814.4	813.9	814.4	814.9	815.4	815.9	816.0	815.7	815.4
125°	888.2	888.5	888.7	889.0	888.7	888.5	888.2	887.9	887.4	886.7	886.0
127.5°	955.5	955.2	955.0	954.8	955.0	955.2	955.5	955.6	955.8	956.0	956.1
130°	999.5	999.5	999.5	999.5	999.5	999.5	999.5	999.5	999.4	999.1	998.8
132.5°	1041.2	1041.0	1040.8	1040.6	1040.8	1041.0	1041.2	1041.4	1041.4	1041.1	1040.9
135°	1100.8	1101.2	1101.7	1102.3	1101.7	1101.2	1100.8	1100.3	1099.8	1099.2	1098.8
137.5°	1155.4	1155.3	1155.1	1154.9	1155.1	1155.3	1155.4	1155.5	1155.4	1154.8	1154.3
140°	1190.8	1191.1	1191.4	1191.6	1191.4	1191.1	1190.8	1190.6	1190.1	1189.4	1188.6
142.5°	1221.8	1221.8	1221.9	1221.9	1221.9	1221.8	1221.8	1221.8	1221.5	1220.9	1220.4
145°	1267.1	1267.7	1268.2	1268.7	1268.2	1267.7	1267.1	1266.7	1266.3	1266.0	1265.8
147.5°	1306.6	1306.8	1307.0	1307.3	1307.0	1306.8	1306.6	1306.3	1306.1	1305.9	1305.7
150°	1331.5	1331.8	1332.1	1332.3	1332.1	1331.8	1331.5	1331.3	1331.2	1331.2	1331.2
152.5°	1354.2	1354.0	1353.9	1353.8	1353.9	1354.0	1354.2	1354.4	1354.2	1353.8	1353.4
155°	1384.8	1384.1	1383.3	1382.6	1383.3	1384.1	1384.8	1385.5	1385.4	1384.4	1383.5
157.5°	1410.6	1409.3	1408.0	1406.7	1408.0	1409.3	1410.6	1411.9	1411.9	1410.6	1409.3
160°	1427.2	1425.7	1424.3	1422.8	1424.3	1425.7	1427.2	1428.7	1428.7	1427.2	1425.7
162.5°	1440.4	1438.6	1436.9	1435.3	1436.9	1438.6	1440.4	1442.0	1442.1	1440.6	1439.2
165°	1459.7	1457.4	1455.2	1452.9	1455.2	1457.4	1459.7	1461.8	1462.0	1460.0	1458.0
167.5°	1473.5	1471.0	1468.6	1466.1	1468.6	1471.0	1473.5	1476.0	1476.2	1473.9	1471.8
170°	1481.6	1479.1	1476.6	1474.1	1476.6	1479.1	1481.6	1484.0	1484.3	1482.3	1480.3
172.5°	1486.6	1483.9	1481.3	1478.6	1481.3	1483.9	1486.6	1489.4	1489.7	1487.7	1485.7
175°	1493.1	1490.1	1487.1	1484.2	1487.1	1490.1	1493.1	1496.1	1496.5	1494.3	1492.0
177.5°	1494.9	1492.5	1490.1	1487.7	1490.1	1492.5	1494.9	1497.3	1497.7	1496.1	1494.5
180°	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1



TEST NUMBER: P332853-935

CATALOG NUMBER: S124DIW-S1195D1340U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1586.3	1588.5	1597.3	1605.6	1615.5	1622.6	1627.5	1633.1	1644.6	1654.0	1662.8
5°	1486.3	1489.7	1507.5	1519.9	1541.2	1559.8	1574.3	1590.0	1608.6	1634.0	1657.4
7.5°	1398.1	1410.9	1430.4	1450.4	1472.2	1496.5	1517.7	1541.5	1573.6	1608.4	1644.5
10°	1348.1	1362.5	1383.1	1406.5	1427.1	1455.3	1481.4	1509.6	1546.0	1588.6	1631.3
12.5°	1298.0	1321.8	1337.5	1365.2	1387.5	1410.7	1438.6	1475.5	1518.0	1562.8	1614.2
15°	1235.3	1248.4	1278.6	1293.7	1325.3	1361.2	1388.6	1425.7	1467.0	1526.1	1583.8
17.5°	1163.0	1180.2	1204.3	1233.1	1269.4	1297.4	1331.5	1369.8	1421.8	1480.5	1552.8
20°	1115.7	1130.1	1159.7	1191.3	1229.9	1259.4	1295.8	1332.9	1386.6	1449.1	1524.7
22.5°	1073.3	1087.3	1118.4	1147.9	1185.3	1221.4	1259.5	1302.7	1354.1	1420.0	1497.2
25°	1007.8	1026.3	1053.9	1084.1	1119.8	1161.1	1202.3	1240.8	1295.8	1365.2	1447.8
27.5°	949.6	964.5	984.4	1018.7	1059.4	1099.2	1140.1	1188.6	1241.4	1314.7	1400.4
30°	912.2	926.0	945.9	977.5	1015.4	1058.0	1100.6	1147.3	1202.3	1275.2	1362.5
32.5°	882.5	892.9	910.7	939.0	973.5	1018.4	1060.4	1108.8	1166.6	1238.4	1323.4
35°	838.7	847.6	854.5	881.3	912.2	953.5	996.1	1047.7	1103.4	1171.4	1256.6
37.5°	795.7	798.7	808.7	826.3	856.3	894.2	933.8	984.6	1041.6	1110.8	1187.6
40°	769.2	770.6	776.8	793.3	819.4	855.1	893.6	943.8	998.2	1063.4	1139.8
42.5°	743.4	742.5	748.2	759.7	784.2	816.7	854.6	900.4	954.7	1015.0	1086.9
45°	702.6	702.6	701.2	710.8	730.7	762.3	794.0	838.0	883.4	942.5	1003.0
47.5°	660.0	656.1	657.3	662.3	679.1	705.1	736.9	772.9	813.0	863.0	916.1
50°	632.4	627.0	624.9	630.3	645.5	668.2	698.4	730.0	767.8	811.8	857.2
52.5°	602.2	596.7	593.0	596.8	610.9	631.9	659.4	687.2	721.1	756.9	796.2
55°	555.4	549.2	547.2	548.5	558.9	575.4	598.7	624.2	649.6	679.2	706.7
57.5°	509.4	499.2	497.3	496.6	503.8	518.8	538.4	560.4	578.9	596.8	626.1
60°	479.1	466.7	462.6	461.9	467.4	479.8	497.7	519.7	532.8	545.1	570.6
62.5°	446.7	434.9	425.8	426.8	431.7	443.5	459.2	475.2	483.8	497.3	514.4
65°	396.7	381.5	374.6	372.6	375.3	385.0	397.4	407.7	417.2	422.8	439.3
67.5°	346.6	334.0	323.8	321.3	320.0	326.7	336.8	343.0	349.9	354.7	364.5
70°	311.4	300.4	288.0	283.9	283.2	288.7	298.3	299.0	308.7	310.7	321.1
72.5°	276.7	263.0	254.5	250.4	247.5	252.4	258.7	260.5	265.8	269.5	274.8
75°	222.7	212.4	204.1	197.9	195.9	198.6	198.6	202.1	205.5	207.6	213.8
77.5°	175.3	163.5	153.7	150.2	147.7	145.9	147.4	149.5	147.8	151.4	152.7
80°	142.3	129.9	122.3	121.0	116.8	113.4	112.7	114.8	112.0	113.4	117.5
82.5°	109.9	101.9	93.8	92.4	87.1	85.4	84.7	83.4	83.4	83.2	84.0
85°	65.3	60.5	55.0	51.6	49.5	46.1	46.1	44.7	43.3	41.9	42.6
87.5°	31.6	30.2	27.0	25.1	23.5	20.9	20.5	18.3	17.1	16.1	15.0
90°	26.1	24.5	22.6	20.6	18.6	16.6	14.3	11.5	8.8	6.1	3.4
92.5°	25.1	23.7	21.7	19.7	17.7	15.8	14.6	14.6	14.4	14.2	14.0
95°	26.1	24.5	24.3	24.1	23.8	23.6	27.6	36.1	44.5	53.0	61.4
97.5°	29.6	29.4	57.2	84.9	112.5	140.3	151.4	146.2	140.9	135.7	130.4
100°	44.9	49.2	83.3	117.6	151.9	186.1	201.0	196.6	192.1	187.6	183.1
102.5°	191.2	236.8	241.3	245.7	250.1	254.6	255.2	251.9	248.7	245.4	242.1
105°	350.7	348.4	347.2	345.9	344.7	343.5	342.1	340.6	339.1	337.6	336.1
107.5°	435.5	434.5	432.7	431.0	429.4	427.7	426.5	425.7	425.0	424.2	423.4
110°	493.0	492.5	491.0	489.5	488.0	486.6	485.4	484.7	484.0	483.2	482.4



TEST NUMBER: P332853-935

CATALOG NUMBER: S124DIW-S1195D1340U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	548.7	548.8	548.1	547.4	546.7	546.0	545.0	543.6	542.3	541.0	539.6
115°	630.3	629.8	630.1	630.3	630.6	630.9	630.6	629.8	629.1	628.4	627.6
117.5°	713.8	713.9	713.3	712.7	712.2	711.6	710.8	709.9	708.9	707.9	706.9
120°	764.4	763.9	764.1	764.4	764.7	764.8	764.5	763.5	762.5	761.5	760.5
122.5°	815.1	814.8	814.4	814.1	813.7	813.4	813.0	812.4	811.8	811.1	810.5
125°	885.2	884.5	884.9	885.5	886.0	886.5	886.2	885.2	884.2	883.2	882.3
127.5°	956.2	956.4	955.3	954.1	953.0	951.8	951.1	950.9	950.6	950.4	950.1
130°	998.7	998.4	997.6	996.9	996.2	995.4	994.9	994.6	994.5	994.2	993.9
132.5°	1040.6	1040.3	1039.4	1038.5	1037.6	1036.6	1035.9	1035.4	1035.0	1034.6	1034.1
135°	1098.3	1097.8	1096.8	1095.8	1094.8	1093.8	1093.5	1093.7	1093.9	1094.2	1094.4
137.5°	1153.7	1153.1	1152.1	1151.0	1149.9	1148.8	1148.2	1148.1	1148.0	1147.9	1147.8
140°	1187.8	1187.1	1186.6	1186.1	1185.6	1185.2	1184.6	1184.1	1183.6	1183.2	1182.7
142.5°	1219.9	1219.3	1219.0	1218.7	1218.4	1218.1	1217.5	1216.6	1215.7	1214.8	1213.9
145°	1265.6	1265.3	1265.3	1265.3	1265.3	1265.3	1264.9	1264.2	1263.4	1262.7	1262.0
147.5°	1305.4	1305.3	1305.5	1305.8	1306.1	1306.3	1305.7	1304.3	1303.0	1301.5	1300.1
150°	1331.2	1331.2	1331.5	1331.7	1332.0	1332.1	1331.8	1330.8	1329.8	1328.9	1327.8
152.5°	1353.1	1352.6	1353.1	1353.5	1354.0	1354.4	1354.3	1353.4	1352.6	1351.9	1351.1
155°	1382.4	1381.5	1382.2	1382.9	1383.7	1384.4	1384.7	1384.4	1384.1	1383.9	1383.7
157.5°	1408.0	1406.7	1407.6	1408.3	1409.2	1410.1	1410.6	1410.7	1410.8	1411.0	1411.2
160°	1424.3	1422.8	1423.0	1423.2	1423.5	1423.7	1424.3	1425.0	1425.7	1426.5	1427.2
162.5°	1437.6	1436.1	1436.4	1436.7	1436.9	1437.2	1437.8	1438.7	1439.7	1440.5	1441.5
165°	1456.0	1454.1	1454.1	1454.1	1454.1	1454.1	1454.7	1455.9	1457.2	1458.4	1459.7
167.5°	1469.6	1467.4	1467.6	1467.7	1467.9	1468.0	1468.8	1470.1	1471.4	1472.7	1473.9
170°	1478.3	1476.4	1476.1	1475.8	1475.6	1475.4	1476.0	1477.5	1478.9	1480.5	1482.0
172.5°	1483.7	1481.7	1481.4	1481.3	1481.0	1480.7	1481.4	1482.8	1484.4	1485.8	1487.3
175°	1489.8	1487.5	1487.3	1487.0	1486.8	1486.5	1487.1	1488.7	1490.1	1491.6	1493.1
177.5°	1492.9	1491.3	1490.9	1490.6	1490.1	1489.7	1490.2	1491.6	1493.0	1494.4	1495.8
180°	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1



TEST NUMBER: P332853-935

CATALOG NUMBER: S124DIW-S1195D1340U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1670.4	1675.9	1683.1	1695.2	1699.6	1705.1	1712.8	1712.3	1714.4	1722.7	1740.3
5°	1676.6	1698.0	1718.6	1743.4	1769.4	1786.7	1810.0	1824.5	1838.9	1857.4	1889.0
7.5°	1679.1	1713.0	1750.8	1794.2	1832.8	1877.4	1912.2	1944.9	1974.4	2013.6	2051.3
10°	1675.2	1720.6	1769.4	1824.5	1882.8	1932.3	1977.0	2027.9	2071.2	2118.7	2161.3
12.5°	1668.1	1722.9	1788.1	1849.8	1918.0	1991.2	2046.9	2098.3	2155.9	2210.5	2276.2
15°	1651.9	1726.8	1803.1	1884.2	1975.7	2060.2	2140.7	2207.3	2269.3	2351.0	2437.0
17.5°	1631.3	1712.1	1808.4	1906.5	2002.1	2098.8	2198.3	2298.5	2376.6	2478.2	2545.5
20°	1612.1	1705.6	1804.5	1921.4	2016.9	2137.3	2236.2	2333.1	2440.4	2541.4	2621.8
22.5°	1585.1	1687.4	1792.4	1908.8	2034.5	2154.8	2269.3	2374.4	2481.7	2591.5	2689.0
25°	1550.8	1643.6	1768.1	1900.1	2025.2	2155.8	2287.1	2419.1	2534.5	2650.8	2741.5
27.5°	1492.5	1609.7	1725.6	1861.8	2000.9	2148.6	2289.1	2427.2	2548.2	2643.7	2699.9
30°	1462.8	1564.6	1690.4	1827.2	1977.7	2136.6	2282.9	2418.4	2531.2	2607.5	2630.1
32.5°	1418.8	1523.9	1646.9	1788.7	1948.0	2111.3	2263.7	2391.4	2485.4	2525.5	2498.1
35°	1353.6	1448.5	1572.9	1717.9	1883.5	2057.4	2208.0	2315.9	2364.0	2326.2	2232.1
37.5°	1275.2	1369.2	1494.2	1636.7	1808.1	1984.9	2121.0	2198.6	2182.7	2088.7	1948.4
40°	1220.2	1308.2	1427.1	1581.1	1748.2	1925.5	2045.1	2087.1	2043.1	1908.3	1759.1
42.5°	1159.2	1244.9	1364.4	1512.9	1689.9	1853.5	1957.7	1961.1	1887.4	1726.3	1576.6
45°	1066.2	1148.0	1260.8	1415.4	1579.1	1733.0	1801.7	1768.1	1631.9	1476.6	1326.0
47.5°	974.5	1045.4	1156.5	1303.4	1458.7	1588.4	1622.5	1561.9	1416.8	1266.0	1126.4
50°	907.4	978.9	1083.4	1223.7	1373.5	1485.6	1502.0	1421.6	1279.3	1127.4	1018.0
52.5°	843.1	914.0	1014.7	1144.4	1281.7	1382.7	1383.3	1290.2	1148.4	1013.0	911.4
55°	748.6	812.5	903.3	1019.4	1141.9	1220.9	1201.6	1105.4	982.3	864.8	776.1
57.5°	657.6	713.3	796.9	893.8	1001.6	1066.8	1034.8	942.2	832.3	732.6	665.5
60°	598.7	651.7	723.2	814.6	905.3	956.2	926.0	842.1	741.1	660.6	602.2
62.5°	541.6	586.3	655.0	734.3	818.5	856.1	829.1	746.4	659.1	586.3	539.0
65°	460.5	497.1	552.0	620.1	681.2	713.6	690.9	613.9	547.2	495.0	457.1
67.5°	385.0	413.5	455.0	509.6	561.6	579.1	558.4	504.9	448.3	406.6	379.9
70°	332.7	359.6	394.6	436.5	481.9	500.4	479.8	437.2	391.2	352.7	326.5
72.5°	287.1	307.8	337.4	373.2	408.7	427.3	413.3	372.3	333.4	304.8	282.5
75°	218.6	236.5	257.1	282.5	310.0	322.4	310.0	281.8	255.0	233.8	217.9
77.5°	158.9	168.6	184.5	203.5	220.7	230.1	219.5	200.4	184.0	169.4	161.5
80°	121.0	127.9	138.9	153.9	165.7	174.6	167.7	151.9	138.9	129.2	125.8
82.5°	88.0	92.6	99.8	111.1	118.9	123.5	120.5	109.0	103.7	95.1	91.7
85°	43.3	46.1	50.9	54.3	61.2	61.9	62.6	57.8	53.0	50.9	48.1
87.5°	16.1	17.1	19.4	21.5	24.2	25.1	25.1	25.4	23.6	23.3	21.4
90°	6.1	8.8	11.5	14.3	16.6	18.6	20.6	22.6	24.5	26.1	27.6
92.5°	14.2	14.4	14.6	14.6	15.8	17.7	19.7	21.7	23.7	25.1	26.7
95°	53.0	44.5	36.1	27.6	23.6	23.8	24.1	24.3	24.5	26.1	27.6
97.5°	135.7	140.9	146.2	151.4	140.3	112.5	84.9	57.2	29.4	29.6	29.8
100°	187.6	192.1	196.6	201.0	186.1	151.9	117.6	83.3	49.2	44.9	40.7
102.5°	245.4	248.7	251.9	255.2	254.6	250.1	245.7	241.3	236.8	191.2	145.8
105°	337.6	339.1	340.6	342.1	343.5	344.7	345.9	347.2	348.4	350.7	352.9
107.5°	424.2	425.0	425.7	426.5	427.7	429.4	431.0	432.7	434.5	435.5	436.6
110°	483.2	484.0	484.7	485.4	486.6	488.0	489.5	491.0	492.5	493.0	493.5



TEST NUMBER: P332853-935

CATALOG NUMBER: S124DIW-S1195D1340U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	541.0	542.3	543.6	545.0	546.0	546.7	547.4	548.1	548.8	548.7	548.5
115°	628.4	629.1	629.8	630.6	630.9	630.6	630.3	630.1	629.8	630.3	630.9
117.5°	707.9	708.9	709.9	710.8	711.6	712.2	712.7	713.3	713.9	713.8	713.6
120°	761.5	762.5	763.5	764.5	764.8	764.7	764.4	764.1	763.9	764.4	764.8
122.5°	811.1	811.8	812.4	813.0	813.4	813.7	814.1	814.4	814.8	815.1	815.4
125°	883.2	884.2	885.2	886.2	886.5	886.0	885.5	884.9	884.5	885.2	886.0
127.5°	950.4	950.6	950.9	951.1	951.8	953.0	954.1	955.3	956.4	956.2	956.1
130°	994.2	994.5	994.6	994.9	995.4	996.2	996.9	997.6	998.4	998.7	998.8
132.5°	1034.6	1035.0	1035.4	1035.9	1036.6	1037.6	1038.5	1039.4	1040.3	1040.6	1040.9
135°	1094.2	1093.9	1093.7	1093.5	1093.8	1094.8	1095.8	1096.8	1097.8	1098.3	1098.8
137.5°	1147.9	1148.0	1148.1	1148.2	1148.8	1149.9	1151.0	1152.1	1153.1	1153.7	1154.3
140°	1183.2	1183.6	1184.1	1184.6	1185.2	1185.6	1186.1	1186.6	1187.1	1187.8	1188.6
142.5°	1214.8	1215.7	1216.6	1217.5	1218.1	1218.4	1218.7	1219.0	1219.3	1219.9	1220.4
145°	1262.7	1263.4	1264.2	1264.9	1265.3	1265.3	1265.3	1265.3	1265.3	1265.6	1265.8
147.5°	1301.5	1303.0	1304.3	1305.7	1306.3	1306.1	1305.8	1305.5	1305.3	1305.4	1305.7
150°	1328.9	1329.8	1330.8	1331.8	1332.1	1332.0	1331.7	1331.5	1331.2	1331.2	1331.2
152.5°	1351.9	1352.6	1353.4	1354.3	1354.4	1354.0	1353.5	1353.1	1352.6	1353.1	1353.4
155°	1383.9	1384.1	1384.4	1384.7	1384.4	1383.7	1382.9	1382.2	1381.5	1382.4	1383.5
157.5°	1411.0	1410.8	1410.7	1410.6	1410.1	1409.2	1408.3	1407.6	1406.7	1408.0	1409.3
160°	1426.5	1425.7	1425.0	1424.3	1423.7	1423.5	1423.2	1423.0	1422.8	1424.3	1425.7
162.5°	1440.5	1439.7	1438.7	1437.8	1437.2	1436.9	1436.7	1436.4	1436.1	1437.6	1439.2
165°	1458.4	1457.2	1455.9	1454.7	1454.1	1454.1	1454.1	1454.1	1454.1	1456.0	1458.0
167.5°	1472.7	1471.4	1470.1	1468.8	1468.0	1467.9	1467.7	1467.6	1467.4	1469.6	1471.8
170°	1480.5	1478.9	1477.5	1476.0	1475.4	1475.6	1475.8	1476.1	1476.4	1478.3	1480.3
172.5°	1485.8	1484.4	1482.8	1481.4	1480.7	1481.0	1481.3	1481.4	1481.7	1483.7	1485.7
175°	1491.6	1490.1	1488.7	1487.1	1486.5	1486.8	1487.0	1487.3	1487.5	1489.8	1492.0
177.5°	1494.4	1493.0	1491.6	1490.2	1489.7	1490.1	1490.6	1490.9	1491.3	1492.9	1494.5
180°	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1



TEST NUMBER: P332853-935

CATALOG NUMBER: S124DIW-S1195D1340U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1749.1	1750.2	1755.1	1759.0	1760.1	1765.6	1766.2
5°	1902.8	1914.5	1937.2	1939.2	1942.7	1960.6	1946.8
7.5°	2082.9	2112.6	2132.4	2149.9	2156.2	2164.0	2162.4
10°	2198.4	2242.4	2264.4	2299.5	2300.9	2309.8	2304.3
12.5°	2314.5	2365.6	2405.7	2412.2	2441.6	2446.2	2453.8
15°	2478.9	2533.1	2588.9	2608.8	2649.4	2659.0	2674.1
17.5°	2633.5	2689.0	2728.0	2779.6	2796.2	2818.5	2803.3
20°	2718.1	2778.6	2828.1	2868.7	2885.8	2898.2	2896.8
22.5°	2769.2	2830.3	2870.4	2901.1	2917.2	2922.4	2922.1
25°	2801.3	2836.3	2848.7	2860.4	2842.5	2836.3	2839.1
27.5°	2712.2	2703.1	2670.8	2628.5	2584.5	2549.5	2530.6
30°	2589.5	2535.9	2487.2	2401.8	2357.9	2331.8	2308.4
32.5°	2415.8	2330.8	2236.9	2158.8	2108.8	2070.0	2064.2
35°	2118.0	1990.1	1875.3	1779.8	1730.3	1688.3	1678.7
37.5°	1800.7	1667.8	1564.4	1480.3	1427.1	1397.6	1369.9
40°	1590.0	1475.9	1374.2	1302.7	1262.1	1240.8	1223.7
42.5°	1427.8	1323.6	1222.4	1167.9	1131.3	1118.2	1108.1
45°	1203.7	1106.7	1036.6	995.4	974.0	952.1	941.8
47.5°	1024.2	945.4	899.1	864.1	841.3	828.2	821.7
50°	922.6	857.9	816.7	789.9	769.2	758.9	753.5
52.5°	832.3	779.3	744.6	723.3	709.3	701.7	699.6
55°	717.0	676.4	654.4	635.8	625.6	618.7	616.0
57.5°	623.2	592.0	574.1	558.9	554.9	549.1	547.2
60°	561.6	537.6	522.5	512.1	508.7	501.8	503.2
62.5°	507.2	487.5	474.6	468.7	464.2	458.4	460.3
65°	429.0	414.5	407.7	402.2	396.7	393.2	396.0
67.5°	359.9	350.1	340.7	337.5	334.8	334.2	331.3
70°	314.9	306.6	298.3	296.3	296.3	293.5	292.8
72.5°	271.4	265.4	259.8	258.3	256.1	257.3	254.3
75°	209.7	204.8	202.8	200.7	200.0	200.0	197.9
77.5°	155.0	151.4	148.1	148.1	145.6	144.6	144.4
80°	117.5	116.1	113.4	113.4	112.0	112.7	111.3
82.5°	88.4	86.4	85.9	84.8	82.9	83.0	81.7
85°	47.4	45.4	44.7	42.6	41.2	42.6	41.2
87.5°	22.3	22.0	21.7	20.7	20.2	20.3	18.8
90°	29.0	30.6	31.5	32.0	32.5	33.0	33.5
92.5°	28.2	29.6	30.4	30.6	30.7	30.7	30.8
95°	29.0	30.6	31.4	31.6	31.9	32.1	32.4
97.5°	30.0	30.0	30.3	30.6	30.7	31.0	31.3
100°	36.5	32.3	30.3	30.6	30.7	31.0	31.3
102.5°	100.2	54.7	31.9	32.0	32.0	32.1	32.2
105°	355.2	357.4	354.0	345.1	336.1	327.2	318.3
107.5°	437.7	438.8	439.8	440.7	441.7	442.6	443.6
110°	494.0	494.5	495.1	495.8	496.6	497.3	498.1



TEST NUMBER: P332853-935

CATALOG NUMBER: S124DIW-S1195D1340U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	548.5	548.4	548.8	549.7	550.7	551.6	552.6
115°	631.4	631.8	632.1	632.1	632.1	632.1	632.1
117.5°	713.5	713.4	713.3	713.3	713.2	713.1	712.9
120°	765.3	765.9	765.9	765.3	764.8	764.4	763.9
122.5°	815.7	816.0	815.9	815.4	814.9	814.4	813.9
125°	886.7	887.4	887.9	888.2	888.5	888.7	889.0
127.5°	956.0	955.8	955.6	955.5	955.2	955.0	954.8
130°	999.1	999.4	999.5	999.5	999.5	999.5	999.5
132.5°	1041.1	1041.4	1041.4	1041.2	1041.0	1040.8	1040.6
135°	1099.2	1099.8	1100.3	1100.8	1101.2	1101.7	1102.3
137.5°	1154.8	1155.4	1155.5	1155.4	1155.3	1155.1	1154.9
140°	1189.4	1190.1	1190.6	1190.8	1191.1	1191.4	1191.6
142.5°	1220.9	1221.5	1221.8	1221.8	1221.8	1221.9	1221.9
145°	1266.0	1266.3	1266.7	1267.1	1267.7	1268.2	1268.7
147.5°	1305.9	1306.1	1306.3	1306.6	1306.8	1307.0	1307.3
150°	1331.2	1331.2	1331.3	1331.5	1331.8	1332.1	1332.3
152.5°	1353.8	1354.2	1354.4	1354.2	1354.0	1353.9	1353.8
155°	1384.4	1385.4	1385.5	1384.8	1384.1	1383.3	1382.6
157.5°	1410.6	1411.9	1411.9	1410.6	1409.3	1408.0	1406.7
160°	1427.2	1428.7	1428.7	1427.2	1425.7	1424.3	1422.8
162.5°	1440.6	1442.1	1442.0	1440.4	1438.6	1436.9	1435.3
165°	1460.0	1462.0	1461.8	1459.7	1457.4	1455.2	1452.9
167.5°	1473.9	1476.2	1476.0	1473.5	1471.0	1468.6	1466.1
170°	1482.3	1484.3	1484.0	1481.6	1479.1	1476.6	1474.1
172.5°	1487.7	1489.7	1489.4	1486.6	1483.9	1481.3	1478.6
175°	1494.3	1496.5	1496.1	1493.1	1490.1	1487.1	1484.2
177.5°	1496.1	1497.7	1497.3	1494.9	1492.5	1490.1	1487.7
180°	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1

(END OF REPORT)