

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: P332860-830

Luminaire Tested: **S124DIW-S1195D1560U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332860-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S1195D1560U830-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10115.9 lumens
Efficiency: N/A
Efficacy: 122.0 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

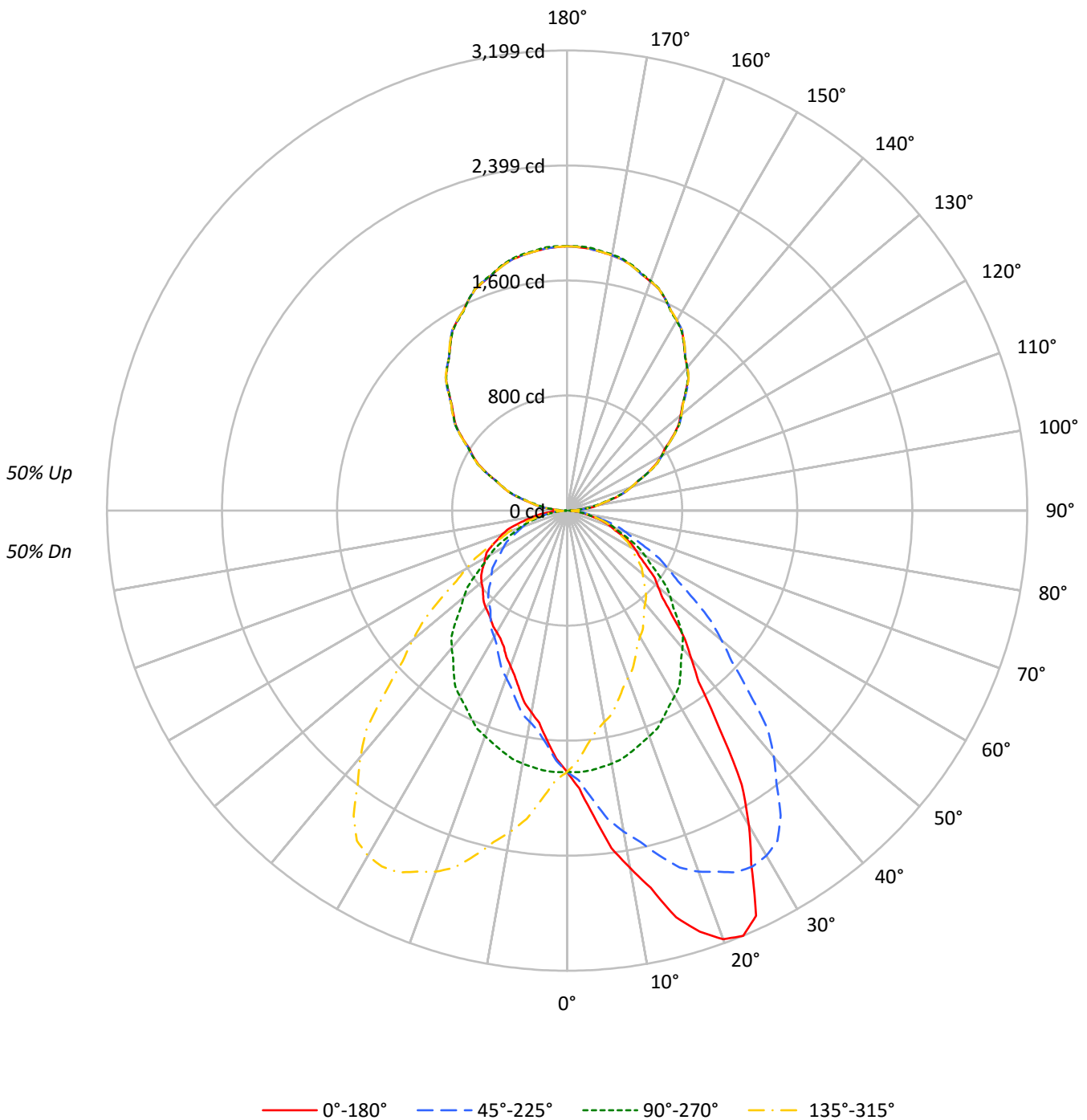
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14666	14666	14666	14666
5°	17271	14704	12977	14704
10°	20678	14638	11684	14638
15°	24466	14491	10730	14491
20°	27244	14339	9879	14339
25°	27684	14118	9291	14118
30°	23557	13904	9106	13904
35°	18111	13557	9107	13557
40°	14116	13149	9278	13149
45°	11771	12536	9434	12536
50°	10359	11786	9755	11786
55°	9491	10888	10148	10888
60°	8893	10085	10619	10085
65°	8281	9186	11012	9186
70°	7567	8297	11261	8297
75°	6759	7299	11126	7299
80°	5667	5983	10776	5983
85°	4177	4326	10319	4326



TEST NUMBER: P332860-830

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	1.7
10°-20°	545.5	5.4
20°-30°	865.0	8.6
30°-40°	962.7	9.5
40°-50°	876.3	8.7
50°-60°	716.1	7.1
60°-70°	511.2	5.1
70°-80°	281.5	2.8
80°-90°	82.3	0.8
90°-100°	121.2	1.2
100°-110°	359.1	3.5
110°-120°	609.4	6.0
120°-130°	803.6	7.9
130°-140°	902.4	8.9
140°-150°	886.8	8.8
150°-160°	745.9	7.4
160°-170°	496.2	4.9
170°-180°	173.8	1.7
0°-30°	1587.5	15.7
0°-40°	2550.2	25.2
0°-60°	4142.6	41.0
0°-90°	5017.6	49.6
90°-120°	1089.7	10.8
90°-150°	3682.5	36.4
90°-180°	5098.0	50.4
0°-180°	10115.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1817	1817	1817	1817	1817	
5°	2131	1814	1601	1814	2131	217
15°	2927	1734	1284	1734	2927	827
25°	3108	1585	1043	1585	3108	1370
35°	1838	1376	924	1376	1838	1166
45°	1031	1098	826	1098	1031	812
55°	674	774	721	774	674	609
65°	434	481	576	481	434	429
75°	217	234	357	234	217	230
85°	45	47	111	47	45	56
90°	43	4	43	4	43	23
95°	112	85	112	85	112	117
105°	347	331	347	331	347	365
115°	614	620	614	620	614	607
125°	895	902	895	902	895	799
135°	1165	1164	1165	1164	1165	900
145°	1416	1414	1416	1414	1416	886
155°	1619	1620	1619	1620	1619	745
165°	1759	1764	1759	1764	1759	495
175°	1826	1835	1826	1835	1826	173
180°	1838	1838	1838	1838	1838	



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1933.4	1932.8	1926.8	1925.6	1921.4	1916.0	1914.8	1905.2	1885.8	1876.8	1874.4
5°	2131.2	2146.3	2126.7	2122.9	2120.6	2095.8	2083.0	2067.9	2033.3	2013.1	1997.2
7.5°	2367.2	2369.0	2360.4	2353.5	2334.4	2312.7	2280.2	2245.6	2204.3	2161.4	2129.1
10°	2522.5	2528.6	2518.8	2517.2	2478.9	2454.8	2406.6	2366.0	2319.3	2267.4	2220.0
12.5°	2686.2	2677.9	2672.9	2640.6	2633.6	2589.6	2533.6	2491.8	2419.9	2360.1	2297.1
15°	2927.3	2910.9	2900.3	2855.9	2834.0	2773.1	2713.7	2667.8	2573.7	2484.2	2416.4
17.5°	3068.8	3085.4	3061.0	3042.8	2986.4	2943.7	2882.9	2786.5	2712.9	2601.7	2516.2
20°	3171.2	3172.7	3159.1	3140.4	3096.0	3041.8	2975.5	2870.1	2782.1	2671.5	2554.1
22.5°	3198.9	3199.2	3193.4	3175.9	3142.2	3098.3	3031.5	2943.7	2837.0	2716.7	2599.2
25°	3107.9	3104.9	3111.7	3131.3	3118.5	3104.9	3066.6	3001.1	2901.8	2774.6	2648.2
27.5°	2770.2	2791.0	2829.2	2877.4	2923.8	2959.1	2969.1	2955.6	2894.1	2789.5	2657.0
30°	2527.1	2552.6	2581.2	2629.3	2722.7	2776.1	2834.8	2879.2	2854.4	2770.9	2647.4
32.5°	2259.7	2266.1	2308.5	2363.2	2448.7	2551.6	2644.6	2734.7	2764.7	2720.8	2617.9
35°	1837.7	1848.2	1894.1	1948.3	2053.0	2178.6	2318.6	2443.4	2546.6	2587.9	2535.3
37.5°	1499.7	1529.9	1562.3	1620.5	1712.6	1825.8	1971.2	2132.9	2286.5	2389.4	2406.9
40°	1339.5	1358.3	1381.7	1426.1	1504.3	1615.7	1740.6	1925.7	2089.1	2236.6	2284.7
42.5°	1213.1	1224.1	1238.4	1278.6	1338.1	1449.0	1563.0	1725.9	1889.8	2066.1	2146.8
45°	1031.0	1042.3	1066.3	1089.7	1134.8	1211.5	1317.7	1451.6	1616.5	1786.5	1935.5
47.5°	899.5	906.6	921.0	945.9	984.3	1034.9	1121.2	1233.1	1385.9	1551.0	1709.8
50°	824.8	830.8	842.1	864.7	894.0	939.1	1009.9	1114.5	1234.2	1400.4	1556.2
52.5°	765.8	768.2	776.5	791.8	815.1	853.1	911.2	997.7	1108.9	1257.2	1412.4
55°	674.3	677.3	684.9	696.1	716.4	740.5	784.9	849.6	946.7	1075.3	1210.0
57.5°	599.0	601.2	607.5	611.8	628.5	648.1	682.2	728.5	802.0	911.2	1031.4
60°	550.8	549.3	556.9	560.6	571.9	588.5	614.8	659.2	723.2	811.2	921.9
62.5°	503.9	501.8	508.1	513.1	519.5	533.7	555.3	590.0	641.9	721.5	817.1
65°	433.5	430.5	434.2	440.3	446.3	453.7	469.6	500.4	541.9	599.0	672.0
67.5°	362.7	365.9	366.5	369.5	373.0	383.2	394.0	415.8	445.1	490.8	552.7
70°	320.6	321.3	324.3	324.3	326.6	335.6	344.7	357.4	386.1	428.2	478.6
72.5°	278.4	281.6	280.4	282.8	284.5	290.5	297.1	309.2	333.7	365.0	407.6
75°	216.7	219.0	219.0	219.7	222.0	224.2	229.5	238.6	255.9	279.2	308.5
77.5°	158.1	158.3	159.4	162.1	162.1	165.7	169.7	176.8	185.4	201.4	219.3
80°	121.9	123.4	122.6	124.1	124.1	127.1	128.7	137.7	141.5	152.0	166.3
82.5°	89.4	90.9	90.8	92.8	94.1	94.6	96.8	100.4	104.2	113.5	119.3
85°	45.1	46.7	45.1	46.7	48.9	49.7	51.9	52.7	55.7	58.0	63.2
87.5°	21.8	23.5	23.3	23.8	24.9	25.3	25.4	24.5	26.5	26.8	28.7
90°	42.6	42.0	41.4	40.7	40.2	38.8	36.9	35.1	33.2	31.3	28.7
92.5°	63.1	62.7	62.3	61.9	61.5	60.8	59.7	58.5	57.4	56.3	54.5
95°	112.3	112.3	112.3	112.3	112.3	111.8	110.8	109.9	109.0	108.0	105.8
97.5°	176.0	176.0	176.0	176.0	176.0	175.4	174.3	173.1	171.9	170.8	168.2
100°	220.3	220.3	220.3	220.3	220.3	220.0	219.3	218.7	218.1	217.4	214.6
102.5°	270.3	270.0	269.8	269.6	269.3	268.7	267.9	266.9	266.1	265.2	262.6
105°	346.8	345.8	344.9	343.9	343.0	342.0	341.1	340.2	339.2	338.3	337.0
107.5°	421.2	421.3	421.4	421.4	421.5	421.1	420.2	419.3	418.4	417.5	417.4
110°	474.7	473.7	472.8	471.8	470.9	470.7	471.4	472.0	472.6	473.3	473.5



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	529.2	529.0	528.9	528.7	528.5	528.5	528.6	528.7	528.9	529.0	529.5
115°	614.0	614.3	614.6	614.9	615.2	615.6	615.9	616.1	616.5	616.8	617.5
117.5°	694.7	695.3	696.0	696.5	697.2	698.0	699.2	700.2	701.3	702.4	702.8
120°	756.1	755.4	754.8	754.2	753.6	754.0	755.6	757.1	758.7	760.3	761.3
122.5°	807.3	808.4	809.5	810.7	811.8	812.9	814.0	815.0	816.1	817.2	817.7
125°	895.3	896.0	896.6	897.2	897.9	898.5	899.2	899.8	900.4	901.1	901.4
127.5°	976.9	977.4	978.0	978.5	978.9	979.5	980.1	980.8	981.4	982.0	982.6
130°	1030.4	1031.6	1032.9	1034.2	1035.4	1036.3	1037.0	1037.6	1038.3	1038.9	1038.9
132.5°	1087.2	1087.7	1088.3	1088.7	1089.2	1089.8	1090.4	1091.1	1091.7	1092.3	1092.6
135°	1165.4	1166.3	1167.2	1168.2	1169.1	1170.0	1170.6	1171.2	1171.9	1172.5	1172.5
137.5°	1247.5	1247.4	1247.2	1247.0	1246.8	1247.1	1247.9	1248.8	1249.5	1250.4	1249.9
140°	1297.6	1297.9	1298.2	1298.5	1298.8	1299.1	1299.5	1299.8	1300.0	1300.4	1300.4
142.5°	1347.6	1347.6	1347.7	1347.7	1347.8	1347.9	1347.9	1348.0	1348.1	1348.1	1348.4
145°	1415.5	1416.5	1417.4	1418.3	1419.3	1419.9	1420.2	1420.6	1420.9	1421.2	1420.9
147.5°	1484.3	1484.6	1485.0	1485.3	1485.5	1485.8	1486.1	1486.4	1486.6	1486.9	1487.1
150°	1526.4	1526.7	1527.0	1527.3	1527.7	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8
152.5°	1565.0	1565.8	1566.7	1567.4	1568.3	1568.3	1567.5	1566.8	1566.0	1565.3	1565.1
155°	1618.7	1620.0	1621.3	1622.5	1623.8	1623.8	1622.5	1621.3	1620.0	1618.7	1619.1
157.5°	1666.8	1667.8	1669.0	1670.0	1671.0	1671.1	1670.2	1669.2	1668.3	1667.4	1667.5
160°	1694.0	1695.6	1697.2	1698.8	1700.3	1700.7	1699.8	1698.8	1697.9	1697.0	1697.2
162.5°	1722.5	1724.1	1725.7	1727.2	1728.8	1728.7	1727.0	1725.3	1723.6	1721.9	1722.2
165°	1759.4	1760.7	1762.0	1763.2	1764.5	1764.2	1762.3	1760.4	1758.5	1756.6	1757.3
167.5°	1785.8	1787.8	1789.8	1791.8	1793.8	1793.8	1791.9	1790.0	1788.1	1786.2	1786.1
170°	1800.6	1802.9	1805.1	1807.3	1809.5	1809.7	1807.8	1805.9	1803.9	1802.0	1801.8
172.5°	1813.2	1815.3	1817.6	1819.8	1822.0	1822.0	1819.9	1817.8	1815.6	1813.5	1813.4
175°	1826.3	1828.4	1830.7	1832.9	1835.1	1835.1	1832.9	1830.7	1828.4	1826.3	1826.6
177.5°	1833.1	1835.1	1837.1	1839.1	1841.2	1841.3	1839.5	1837.8	1836.0	1834.2	1834.2
180°	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1875.0	1866.6	1860.6	1855.8	1842.5	1834.7	1828.6	1820.2	1810.6	1800.4	1787.7
5°	1981.4	1955.9	1937.0	1908.5	1881.3	1858.8	1835.4	1814.4	1788.8	1761.0	1740.6
7.5°	2093.3	2055.2	2006.4	1964.2	1916.6	1875.2	1838.1	1800.3	1760.8	1722.6	1687.5
10°	2164.3	2115.3	2061.2	1997.2	1937.0	1883.6	1833.9	1785.7	1739.1	1692.4	1652.6
12.5°	2240.8	2179.8	2099.7	2025.0	1957.5	1886.0	1826.1	1767.1	1710.8	1661.8	1615.2
15°	2343.4	2255.3	2162.8	2062.7	1973.9	1890.4	1808.4	1733.8	1670.7	1605.9	1560.8
17.5°	2406.5	2297.5	2191.7	2087.1	1979.6	1874.2	1785.7	1699.9	1620.7	1556.4	1499.5
20°	2448.0	2339.7	2207.9	2103.4	1975.4	1867.1	1764.7	1669.1	1586.4	1517.9	1459.2
22.5°	2484.2	2358.9	2227.2	2089.5	1962.2	1847.2	1735.2	1639.0	1554.4	1482.3	1426.1
25°	2503.7	2359.9	2217.0	2080.0	1935.5	1799.3	1697.7	1584.9	1494.5	1418.5	1358.3
27.5°	2505.8	2352.1	2190.4	2038.2	1889.0	1762.2	1633.9	1533.0	1439.3	1359.0	1301.2
30°	2499.2	2338.9	2165.0	2000.3	1850.5	1712.8	1601.4	1491.6	1396.0	1316.2	1255.9
32.5°	2478.1	2311.2	2132.5	1958.1	1802.9	1668.2	1553.2	1448.8	1355.7	1277.1	1213.8
35°	2417.2	2252.3	2061.9	1880.6	1721.8	1585.6	1481.8	1375.6	1282.3	1207.9	1146.9
37.5°	2321.9	2172.8	1979.3	1791.7	1635.7	1498.9	1396.0	1300.0	1216.0	1140.3	1077.8
40°	2238.8	2107.9	1913.7	1730.8	1562.3	1432.1	1335.8	1247.7	1164.1	1092.7	1033.2
42.5°	2143.1	2029.0	1849.9	1656.1	1493.6	1362.8	1268.9	1189.9	1111.2	1045.1	985.7
45°	1972.4	1897.1	1728.6	1549.4	1380.2	1256.7	1167.2	1098.0	1031.7	967.0	917.4
47.5°	1776.1	1738.8	1596.9	1426.8	1266.0	1144.4	1066.8	1002.9	944.7	889.9	846.1
50°	1644.3	1626.3	1503.5	1339.5	1186.0	1071.6	993.3	938.4	888.7	840.6	799.2
52.5°	1514.3	1513.6	1403.1	1252.8	1110.8	1000.6	922.9	871.6	828.6	789.4	752.2
55°	1315.4	1336.5	1250.0	1116.0	988.8	889.5	819.5	773.6	743.5	711.1	683.3
57.5°	1132.8	1167.8	1096.5	978.5	872.3	780.8	719.9	685.4	653.4	633.8	613.5
60°	1013.7	1046.8	991.1	891.7	791.6	713.4	655.4	624.6	596.7	583.2	568.9
62.5°	907.7	937.2	896.0	803.9	717.0	641.8	592.9	563.2	544.4	529.6	520.2
65°	756.3	781.2	745.7	678.8	604.3	544.1	504.2	480.9	462.8	456.8	446.3
67.5°	611.3	634.0	614.8	557.9	498.1	452.6	421.4	399.0	388.3	383.0	375.5
70°	525.3	547.8	527.5	477.9	432.0	393.6	364.2	351.5	340.2	337.9	327.3
72.5°	452.4	467.8	447.4	408.6	369.4	337.0	314.2	300.9	295.0	291.0	285.2
75°	339.4	353.0	339.4	309.2	281.4	258.9	239.3	234.0	227.2	225.0	221.2
77.5°	240.3	251.9	241.6	222.7	202.0	184.5	174.0	167.2	165.7	161.8	163.6
80°	183.6	191.1	181.3	168.5	152.0	140.0	132.4	128.7	124.1	122.6	125.6
82.5°	131.9	135.2	130.2	121.6	109.2	101.4	96.3	92.0	91.0	91.3	91.3
85°	68.5	67.8	67.0	59.5	55.7	50.4	47.4	46.7	45.9	47.4	48.9
87.5°	28.1	28.2	27.1	24.1	21.6	19.1	17.8	16.5	17.8	19.1	20.4
90°	26.2	23.7	21.2	18.2	14.7	11.2	7.7	4.2	7.7	11.2	14.7
92.5°	52.8	51.0	49.2	46.4	42.3	38.4	34.4	30.4	34.4	38.4	42.3
95°	103.6	101.4	99.2	96.6	93.8	91.0	88.1	85.3	88.1	91.0	93.8
97.5°	165.6	163.1	160.5	158.1	155.8	153.4	151.2	148.9	151.2	153.4	155.8
100°	211.8	209.0	206.0	204.1	202.7	201.5	200.2	199.0	200.2	201.5	202.7
102.5°	260.0	257.4	254.9	253.3	252.8	252.3	251.8	251.3	251.8	252.3	252.8
105°	335.7	334.4	333.2	332.4	332.1	331.8	331.5	331.1	331.5	331.8	332.1
107.5°	417.2	417.0	416.8	416.5	416.1	415.8	415.4	415.0	415.4	415.8	416.1
110°	473.9	474.2	474.6	474.4	473.7	473.1	472.5	471.8	472.5	473.1	473.7



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	530.1	530.7	531.2	531.5	531.3	531.2	531.1	530.9	531.1	531.2	531.3
115°	618.0	618.7	619.3	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6
117.5°	703.2	703.7	704.2	704.3	704.0	703.7	703.4	703.2	703.4	703.7	704.0
120°	762.2	763.2	764.1	763.9	762.7	761.5	760.2	758.9	760.2	761.5	762.7
122.5°	818.0	818.5	819.0	818.9	818.4	817.9	817.4	816.9	817.4	817.9	818.4
125°	901.6	902.0	902.3	902.5	902.5	902.5	902.5	902.5	902.5	902.5	902.5
127.5°	983.1	983.5	984.1	983.8	982.9	981.9	981.0	980.1	981.0	981.9	982.9
130°	1038.9	1038.9	1038.9	1038.4	1037.5	1036.5	1035.6	1034.6	1035.6	1036.5	1037.5
132.5°	1092.9	1093.1	1093.3	1093.2	1092.4	1091.7	1091.1	1090.3	1091.1	1091.7	1092.4
135°	1172.5	1172.5	1172.5	1171.6	1169.7	1167.7	1165.8	1163.9	1165.8	1167.7	1169.7
137.5°	1249.3	1248.9	1248.4	1247.6	1246.8	1245.9	1245.0	1244.2	1245.0	1245.9	1246.8
140°	1300.4	1300.4	1300.4	1300.0	1299.5	1298.8	1298.2	1297.6	1298.2	1298.8	1299.5
142.5°	1348.7	1348.9	1349.2	1349.0	1348.3	1347.7	1347.1	1346.4	1347.1	1347.7	1348.3
145°	1420.6	1420.2	1419.9	1419.2	1417.9	1416.6	1415.3	1414.1	1415.3	1416.6	1417.9
147.5°	1487.3	1487.6	1487.9	1487.2	1485.7	1484.2	1482.7	1481.2	1482.7	1484.2	1485.7
150°	1527.8	1527.8	1527.8	1527.2	1525.9	1524.7	1523.3	1522.1	1523.3	1524.7	1525.9
152.5°	1564.8	1564.5	1564.3	1563.8	1563.0	1562.3	1561.5	1560.8	1561.5	1562.3	1563.0
155°	1619.4	1619.7	1620.0	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1
157.5°	1667.5	1667.5	1667.6	1667.9	1668.5	1669.1	1669.6	1670.2	1669.6	1669.1	1668.5
160°	1697.5	1697.9	1698.2	1698.5	1698.8	1699.1	1699.4	1699.8	1699.4	1699.1	1698.8
162.5°	1722.6	1722.9	1723.2	1723.7	1724.6	1725.4	1726.3	1727.0	1726.3	1725.4	1724.6
165°	1757.8	1758.5	1759.2	1759.9	1760.9	1761.8	1762.7	1763.7	1762.7	1761.8	1760.9
167.5°	1786.0	1786.0	1785.9	1786.6	1787.9	1789.2	1790.5	1791.9	1790.5	1789.2	1787.9
170°	1801.5	1801.1	1800.8	1801.5	1803.0	1804.6	1806.2	1807.8	1806.2	1804.6	1803.0
172.5°	1813.4	1813.3	1813.2	1813.8	1815.1	1816.5	1817.8	1819.1	1817.8	1816.5	1815.1
175°	1826.8	1827.2	1827.5	1828.4	1830.0	1831.6	1833.2	1834.8	1833.2	1831.6	1830.0
177.5°	1834.2	1834.2	1834.2	1834.8	1836.1	1837.4	1838.6	1839.8	1838.6	1837.4	1836.1
180°	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1781.7	1776.3	1768.5	1757.7	1748.6	1739.0	1736.5	1733.0	1740.1	1734.2	1732.3
5°	1723.3	1707.5	1687.2	1663.9	1650.3	1630.8	1627.0	1619.5	1611.9	1611.2	1603.6
7.5°	1661.4	1638.2	1611.7	1587.8	1565.8	1544.5	1530.5	1527.5	1516.4	1509.9	1502.3
10°	1621.7	1593.1	1562.3	1539.7	1514.1	1491.6	1475.7	1466.7	1459.2	1450.9	1443.4
12.5°	1574.8	1544.4	1518.9	1494.5	1464.1	1447.0	1421.0	1405.3	1403.8	1403.9	1384.4
15°	1520.1	1490.1	1450.9	1416.3	1399.7	1366.6	1352.3	1334.3	1323.0	1311.6	1302.7
17.5°	1457.6	1420.2	1389.6	1349.9	1318.3	1291.9	1273.2	1262.3	1245.3	1229.4	1217.8
20°	1418.5	1378.7	1346.3	1304.1	1269.5	1237.2	1221.3	1206.4	1193.5	1180.0	1167.2
22.5°	1378.8	1337.1	1297.5	1256.6	1224.4	1190.2	1175.0	1154.5	1142.4	1134.8	1122.0
25°	1316.2	1271.0	1225.9	1186.8	1153.7	1123.5	1103.2	1087.4	1073.8	1067.8	1059.6
27.5°	1248.1	1203.3	1159.7	1115.2	1077.6	1055.8	1039.5	1027.7	1019.8	1011.8	1008.1
30°	1204.9	1158.2	1111.5	1070.1	1035.5	1013.7	998.6	990.3	984.3	980.5	976.8
32.5°	1160.8	1114.8	1065.7	1027.9	996.9	977.5	966.1	957.8	954.8	953.5	952.2
35°	1090.4	1043.8	998.6	964.8	935.4	927.8	918.1	913.6	912.1	917.4	919.6
37.5°	1022.3	978.9	937.4	904.6	885.3	874.3	871.0	871.1	876.6	881.2	886.6
40°	978.3	936.1	897.0	868.5	850.4	843.6	842.1	845.8	851.9	857.1	863.2
42.5°	935.6	894.0	858.5	831.7	819.1	812.8	813.8	817.6	826.0	832.5	841.5
45°	869.2	834.5	799.9	778.2	767.6	769.1	769.1	775.9	784.1	793.9	803.7
47.5°	806.7	771.8	743.4	725.0	719.5	718.2	722.5	731.3	743.2	755.3	768.9
50°	764.6	731.5	706.6	690.0	684.1	686.4	692.3	700.6	714.9	730.0	744.2
52.5°	721.8	691.7	668.7	653.4	649.1	653.2	659.2	672.3	684.9	701.1	718.4
55°	655.4	629.9	611.8	600.5	599.0	601.2	608.0	622.4	640.4	660.7	677.3
57.5°	589.4	568.0	551.5	543.7	544.4	546.5	557.6	574.7	593.9	615.6	637.0
60°	544.8	525.3	511.7	505.7	506.4	511.0	524.5	540.4	564.4	585.5	608.0
62.5°	502.7	485.5	472.6	467.2	466.1	476.1	489.0	505.4	529.5	553.0	577.3
65°	435.0	421.4	410.9	407.8	410.1	417.6	434.2	456.0	476.4	501.1	526.8
67.5°	368.7	357.6	350.3	351.8	354.5	365.6	379.5	398.2	421.3	447.0	472.3
70°	326.6	316.0	310.0	310.8	315.3	328.9	340.9	359.7	384.6	410.9	432.0
72.5°	283.2	276.4	270.9	274.1	278.6	287.9	302.9	321.8	343.7	368.2	390.4
75°	217.4	217.4	214.4	216.7	223.5	232.5	243.8	263.3	285.2	304.8	322.8
77.5°	161.4	159.7	161.6	164.4	168.2	179.0	191.9	205.9	222.3	241.9	256.7
80°	123.4	124.1	127.9	132.4	133.9	142.2	155.8	168.5	181.3	197.9	212.3
82.5°	92.7	93.5	95.4	101.1	102.6	111.5	120.3	133.1	144.7	155.8	167.7
85°	50.4	50.4	54.2	56.5	60.2	66.3	71.4	79.0	89.5	97.1	108.4
87.5°	22.9	23.5	26.4	28.1	30.4	33.9	35.5	42.5	45.3	48.7	54.4
90°	18.2	21.2	23.7	26.2	28.7	31.3	33.2	35.1	36.9	38.8	40.2
92.5°	46.4	49.2	51.0	52.8	54.5	56.3	57.4	58.5	59.7	60.8	61.5
95°	96.6	99.2	101.4	103.6	105.8	108.0	109.0	109.9	110.8	111.8	112.3
97.5°	158.1	160.5	163.1	165.6	168.2	170.8	171.9	173.1	174.3	175.4	176.0
100°	204.1	206.0	209.0	211.8	214.6	217.4	218.1	218.7	219.3	220.0	220.3
102.5°	253.3	254.9	257.4	260.0	262.6	265.2	266.1	266.9	267.9	268.7	269.3
105°	332.4	333.2	334.4	335.7	337.0	338.3	339.2	340.2	341.1	342.0	343.0
107.5°	416.5	416.8	417.0	417.2	417.4	417.5	418.4	419.3	420.2	421.1	421.5
110°	474.4	474.6	474.2	473.9	473.5	473.3	472.6	472.0	471.4	470.7	470.9



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	531.5	531.2	530.7	530.1	529.5	529.0	528.9	528.7	528.6	528.5	528.5
115°	619.6	619.3	618.7	618.0	617.5	616.8	616.5	616.1	615.9	615.6	615.2
117.5°	704.3	704.2	703.7	703.2	702.8	702.4	701.3	700.2	699.2	698.0	697.2
120°	763.9	764.1	763.2	762.2	761.3	760.3	758.7	757.1	755.6	754.0	753.6
122.5°	818.9	819.0	818.5	818.0	817.7	817.2	816.1	815.0	814.0	812.9	811.8
125°	902.5	902.3	902.0	901.6	901.4	901.1	900.4	899.8	899.2	898.5	897.9
127.5°	983.8	984.1	983.5	983.1	982.6	982.0	981.4	980.8	980.1	979.5	978.9
130°	1038.4	1038.9	1038.9	1038.9	1038.9	1038.9	1038.3	1037.6	1037.0	1036.3	1035.4
132.5°	1093.2	1093.3	1093.1	1092.9	1092.6	1092.3	1091.7	1091.1	1090.4	1089.8	1089.2
135°	1171.6	1172.5	1172.5	1172.5	1172.5	1172.5	1171.9	1171.2	1170.6	1170.0	1169.1
137.5°	1247.6	1248.4	1248.9	1249.3	1249.9	1250.4	1249.5	1248.8	1247.9	1247.1	1246.8
140°	1300.0	1300.4	1300.4	1300.4	1300.4	1300.4	1300.0	1299.8	1299.5	1299.1	1298.8
142.5°	1349.0	1349.2	1348.9	1348.7	1348.4	1348.1	1348.1	1348.0	1347.9	1347.9	1347.8
145°	1419.2	1419.9	1420.2	1420.6	1420.9	1421.2	1420.9	1420.6	1420.2	1419.9	1419.3
147.5°	1487.2	1487.9	1487.6	1487.3	1487.1	1486.9	1486.6	1486.4	1486.1	1485.8	1485.5
150°	1527.2	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.7
152.5°	1563.8	1564.3	1564.5	1564.8	1565.1	1565.3	1566.0	1566.8	1567.5	1568.3	1568.3
155°	1620.1	1620.0	1619.7	1619.4	1619.1	1618.7	1620.0	1621.3	1622.5	1623.8	1623.8
157.5°	1667.9	1667.6	1667.5	1667.5	1667.5	1667.4	1668.3	1669.2	1670.2	1671.1	1671.0
160°	1698.5	1698.2	1697.9	1697.5	1697.2	1697.0	1697.9	1698.8	1699.8	1700.7	1700.3
162.5°	1723.7	1723.2	1722.9	1722.6	1722.2	1721.9	1723.6	1725.3	1727.0	1728.7	1728.8
165°	1759.9	1759.2	1758.5	1757.8	1757.3	1756.6	1758.5	1760.4	1762.3	1764.2	1764.5
167.5°	1786.6	1785.9	1786.0	1786.0	1786.1	1786.2	1788.1	1790.0	1791.9	1793.8	1793.8
170°	1801.5	1800.8	1801.1	1801.5	1801.8	1802.0	1803.9	1805.9	1807.8	1809.7	1809.5
172.5°	1813.8	1813.2	1813.3	1813.4	1813.4	1813.5	1815.6	1817.8	1819.9	1822.0	1822.0
175°	1828.4	1827.5	1827.2	1826.8	1826.6	1826.3	1828.4	1830.7	1832.9	1835.1	1835.1
177.5°	1834.8	1834.2	1834.2	1834.2	1834.2	1834.2	1836.0	1837.8	1839.5	1841.3	1841.2
180°	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1731.2	1729.9	1725.7	1725.1	1725.7	1729.9	1731.2	1732.3	1734.2	1740.1	1733.0
5°	1599.1	1595.3	1593.1	1601.4	1593.1	1595.3	1599.1	1603.6	1611.2	1611.9	1619.5
7.5°	1499.7	1496.7	1490.1	1487.9	1490.1	1496.7	1499.7	1502.3	1509.9	1516.4	1527.5
10°	1435.9	1432.9	1426.8	1425.3	1426.8	1432.9	1435.9	1443.4	1450.9	1459.2	1466.7
12.5°	1374.4	1368.4	1367.3	1368.8	1367.3	1368.4	1374.4	1384.4	1403.9	1403.8	1405.3
15°	1292.9	1289.9	1281.6	1283.8	1281.6	1289.9	1292.9	1302.7	1311.6	1323.0	1334.3
17.5°	1212.5	1208.9	1198.8	1207.7	1198.8	1208.9	1212.5	1217.8	1229.4	1245.3	1262.3
20°	1161.9	1155.9	1150.7	1149.9	1150.7	1155.9	1161.9	1167.2	1180.0	1193.5	1206.4
22.5°	1113.7	1108.3	1107.9	1103.0	1107.9	1108.3	1113.7	1122.0	1134.8	1142.4	1154.5
25°	1053.6	1048.3	1046.8	1043.0	1046.8	1048.3	1053.6	1059.6	1067.8	1073.8	1087.4
27.5°	1007.4	1004.8	1002.1	1003.2	1002.1	1004.8	1007.4	1008.1	1011.8	1019.8	1027.7
30°	979.0	978.3	976.8	976.8	976.8	978.3	979.0	976.8	980.5	984.3	990.3
32.5°	955.5	955.5	956.3	956.3	956.3	955.5	955.5	952.2	953.5	954.8	957.8
35°	922.7	924.8	926.3	924.1	926.3	924.8	922.7	919.6	917.4	912.1	913.6
37.5°	892.8	895.0	897.2	899.8	897.2	895.0	892.8	886.6	881.2	876.6	871.1
40°	870.0	875.2	876.7	880.4	876.7	875.2	870.0	863.2	857.1	851.9	845.8
42.5°	848.3	854.1	858.0	858.8	858.0	854.1	848.3	841.5	832.5	826.0	817.6
45°	815.0	821.0	826.3	826.3	826.3	821.0	815.0	803.7	793.9	784.1	775.9
47.5°	780.5	789.3	794.6	795.9	794.6	789.3	780.5	768.9	755.3	743.2	731.3
50°	757.1	767.6	772.9	776.7	772.9	767.6	757.1	744.2	730.0	714.9	700.6
52.5°	734.1	744.7	751.8	753.8	751.8	744.7	734.1	718.4	701.1	684.9	672.3
55°	694.6	709.6	717.9	721.0	717.9	709.6	694.6	677.3	660.7	640.4	622.4
57.5°	657.2	671.1	680.7	683.0	680.7	671.1	657.2	637.0	615.6	593.9	574.7
60°	628.4	643.4	655.4	657.7	655.4	643.4	628.4	608.0	585.5	564.4	540.4
62.5°	598.9	614.5	625.4	631.2	625.4	614.5	598.9	577.3	553.0	529.5	505.4
65°	547.8	563.6	574.2	576.5	574.2	563.6	547.8	526.8	501.1	476.4	456.0
67.5°	492.2	507.9	514.9	519.2	514.9	507.9	492.2	472.3	447.0	421.3	398.2
70°	453.0	465.8	473.3	477.1	473.3	465.8	453.0	432.0	410.9	384.6	359.7
72.5°	408.5	421.9	430.6	431.3	430.6	421.9	408.5	390.4	368.2	343.7	321.8
75°	340.2	352.2	356.7	356.7	356.7	352.2	340.2	322.8	304.8	285.2	263.3
77.5°	269.3	275.4	281.2	282.4	281.2	275.4	269.3	256.7	241.9	222.3	205.9
80°	223.5	227.2	231.8	231.8	231.8	227.2	223.5	212.3	197.9	181.3	168.5
82.5°	176.5	179.7	184.3	183.6	184.3	179.7	176.5	167.7	155.8	144.7	133.1
85°	106.9	113.7	112.9	111.4	112.9	113.7	106.9	108.4	97.1	89.5	79.0
87.5°	56.3	57.0	59.0	60.3	59.0	57.0	56.3	54.4	48.7	45.3	42.5
90°	40.7	41.4	42.0	42.6	42.0	41.4	40.7	40.2	38.8	36.9	35.1
92.5°	61.9	62.3	62.7	63.1	62.7	62.3	61.9	61.5	60.8	59.7	58.5
95°	112.3	112.3	112.3	112.3	112.3	112.3	112.3	112.3	111.8	110.8	109.9
97.5°	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	175.4	174.3	173.1
100°	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.3	220.0	219.3	218.7
102.5°	269.6	269.8	270.0	270.3	270.0	269.8	269.6	269.3	268.7	267.9	266.9
105°	343.9	344.9	345.8	346.8	345.8	344.9	343.9	343.0	342.0	341.1	340.2
107.5°	421.4	421.4	421.3	421.2	421.3	421.4	421.4	421.5	421.1	420.2	419.3
110°	471.8	472.8	473.7	474.7	473.7	472.8	471.8	470.9	470.7	471.4	472.0



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	528.7	528.9	529.0	529.2	529.0	528.9	528.7	528.5	528.5	528.6	528.7
115°	614.9	614.6	614.3	614.0	614.3	614.6	614.9	615.2	615.6	615.9	616.1
117.5°	696.5	696.0	695.3	694.7	695.3	696.0	696.5	697.2	698.0	699.2	700.2
120°	754.2	754.8	755.4	756.1	755.4	754.8	754.2	753.6	754.0	755.6	757.1
122.5°	810.7	809.5	808.4	807.3	808.4	809.5	810.7	811.8	812.9	814.0	815.0
125°	897.2	896.6	896.0	895.3	896.0	896.6	897.2	897.9	898.5	899.2	899.8
127.5°	978.5	978.0	977.4	976.9	977.4	978.0	978.5	978.9	979.5	980.1	980.8
130°	1034.2	1032.9	1031.6	1030.4	1031.6	1032.9	1034.2	1035.4	1036.3	1037.0	1037.6
132.5°	1088.7	1088.3	1087.7	1087.2	1087.7	1088.3	1088.7	1089.2	1089.8	1090.4	1091.1
135°	1168.2	1167.2	1166.3	1165.4	1166.3	1167.2	1168.2	1169.1	1170.0	1170.6	1171.2
137.5°	1247.0	1247.2	1247.4	1247.5	1247.4	1247.2	1247.0	1246.8	1247.1	1247.9	1248.8
140°	1298.5	1298.2	1297.9	1297.6	1297.9	1298.2	1298.5	1298.8	1299.1	1299.5	1299.8
142.5°	1347.7	1347.7	1347.6	1347.6	1347.6	1347.7	1347.7	1347.8	1347.9	1347.9	1348.0
145°	1418.3	1417.4	1416.5	1415.5	1416.5	1417.4	1418.3	1419.3	1419.9	1420.2	1420.6
147.5°	1485.3	1485.0	1484.6	1484.3	1484.6	1485.0	1485.3	1485.5	1485.8	1486.1	1486.4
150°	1527.3	1527.0	1526.7	1526.4	1526.7	1527.0	1527.3	1527.7	1527.8	1527.8	1527.8
152.5°	1567.4	1566.7	1565.8	1565.0	1565.8	1566.7	1567.4	1568.3	1568.3	1567.5	1566.8
155°	1622.5	1621.3	1620.0	1618.7	1620.0	1621.3	1622.5	1623.8	1623.8	1622.5	1621.3
157.5°	1670.0	1669.0	1667.8	1666.8	1667.8	1669.0	1670.0	1671.0	1671.1	1670.2	1669.2
160°	1698.8	1697.2	1695.6	1694.0	1695.6	1697.2	1698.8	1700.3	1700.7	1699.8	1698.8
162.5°	1727.2	1725.7	1724.1	1722.5	1724.1	1725.7	1727.2	1728.8	1728.7	1727.0	1725.3
165°	1763.2	1762.0	1760.7	1759.4	1760.7	1762.0	1763.2	1764.5	1764.2	1762.3	1760.4
167.5°	1791.8	1789.8	1787.8	1785.8	1787.8	1789.8	1791.8	1793.8	1793.8	1791.9	1790.0
170°	1807.3	1805.1	1802.9	1800.6	1802.9	1805.1	1807.3	1809.5	1809.7	1807.8	1805.9
172.5°	1819.8	1817.6	1815.3	1813.2	1815.3	1817.6	1819.8	1822.0	1822.0	1819.9	1817.8
175°	1832.9	1830.7	1828.4	1826.3	1828.4	1830.7	1832.9	1835.1	1835.1	1832.9	1830.7
177.5°	1839.1	1837.1	1835.1	1833.1	1835.1	1837.1	1839.1	1841.2	1841.3	1839.5	1837.8
180°	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1736.5	1739.0	1748.6	1757.7	1768.5	1776.3	1781.7	1787.7	1800.4	1810.6	1820.2
5°	1627.0	1630.8	1650.3	1663.9	1687.2	1707.5	1723.3	1740.6	1761.0	1788.8	1814.4
7.5°	1530.5	1544.5	1565.8	1587.8	1611.7	1638.2	1661.4	1687.5	1722.6	1760.8	1800.3
10°	1475.7	1491.6	1514.1	1539.7	1562.3	1593.1	1621.7	1652.6	1692.4	1739.1	1785.7
12.5°	1421.0	1447.0	1464.1	1494.5	1518.9	1544.4	1574.8	1615.2	1661.8	1710.8	1767.1
15°	1352.3	1366.6	1399.7	1416.3	1450.9	1490.1	1520.1	1560.8	1605.9	1670.7	1733.8
17.5°	1273.2	1291.9	1318.3	1349.9	1389.6	1420.2	1457.6	1499.5	1556.4	1620.7	1699.9
20°	1221.3	1237.2	1269.5	1304.1	1346.3	1378.7	1418.5	1459.2	1517.9	1586.4	1669.1
22.5°	1175.0	1190.2	1224.4	1256.6	1297.5	1337.1	1378.8	1426.1	1482.3	1554.4	1639.0
25°	1103.2	1123.5	1153.7	1186.8	1225.9	1271.0	1316.2	1358.3	1418.5	1494.5	1584.9
27.5°	1039.5	1055.8	1077.6	1115.2	1159.7	1203.3	1248.1	1301.2	1359.0	1439.3	1533.0
30°	998.6	1013.7	1035.5	1070.1	1111.5	1158.2	1204.9	1255.9	1316.2	1396.0	1491.6
32.5°	966.1	977.5	996.9	1027.9	1065.7	1114.8	1160.8	1213.8	1277.1	1355.7	1448.8
35°	918.1	927.8	935.4	964.8	998.6	1043.8	1090.4	1146.9	1207.9	1282.3	1375.6
37.5°	871.0	874.3	885.3	904.6	937.4	978.9	1022.3	1077.8	1140.3	1216.0	1300.0
40°	842.1	843.6	850.4	868.5	897.0	936.1	978.3	1033.2	1092.7	1164.1	1247.7
42.5°	813.8	812.8	819.1	831.7	858.5	894.0	935.6	985.7	1045.1	1111.2	1189.9
45°	769.1	769.1	767.6	778.2	799.9	834.5	869.2	917.4	967.0	1031.7	1098.0
47.5°	722.5	718.2	719.5	725.0	743.4	771.8	806.7	846.1	889.9	944.7	1002.9
50°	692.3	686.4	684.1	690.0	706.6	731.5	764.6	799.2	840.6	888.7	938.4
52.5°	659.2	653.2	649.1	653.4	668.7	691.7	721.8	752.2	789.4	828.6	871.6
55°	608.0	601.2	599.0	600.5	611.8	629.9	655.4	683.3	711.1	743.5	773.6
57.5°	557.6	546.5	544.4	543.7	551.5	568.0	589.4	613.5	633.8	653.4	685.4
60°	524.5	511.0	506.4	505.7	511.7	525.3	544.8	568.9	583.2	596.7	624.6
62.5°	489.0	476.1	466.1	467.2	472.6	485.5	502.7	520.2	529.6	544.4	563.2
65°	434.2	417.6	410.1	407.8	410.9	421.4	435.0	446.3	456.8	462.8	480.9
67.5°	379.5	365.6	354.5	351.8	350.3	357.6	368.7	375.5	383.0	388.3	399.0
70°	340.9	328.9	315.3	310.8	310.0	316.0	326.6	327.3	337.9	340.2	351.5
72.5°	302.9	287.9	278.6	274.1	270.9	276.4	283.2	285.2	291.0	295.0	300.9
75°	243.8	232.5	223.5	216.7	214.4	217.4	217.4	221.2	225.0	227.2	234.0
77.5°	191.9	179.0	168.2	164.4	161.6	159.7	161.4	163.6	161.8	165.7	167.2
80°	155.8	142.2	133.9	132.4	127.9	124.1	123.4	125.6	122.6	124.1	128.7
82.5°	120.3	111.5	102.6	101.1	95.4	93.5	92.7	91.3	91.3	91.0	92.0
85°	71.4	66.3	60.2	56.5	54.2	50.4	50.4	48.9	47.4	45.9	46.7
87.5°	35.5	33.9	30.4	28.1	26.4	23.5	22.9	20.4	19.1	17.8	16.5
90°	33.2	31.3	28.7	26.2	23.7	21.2	18.2	14.7	11.2	7.7	4.2
92.5°	57.4	56.3	54.5	52.8	51.0	49.2	46.4	42.3	38.4	34.4	30.4
95°	109.0	108.0	105.8	103.6	101.4	99.2	96.6	93.8	91.0	88.1	85.3
97.5°	171.9	170.8	168.2	165.6	163.1	160.5	158.1	155.8	153.4	151.2	148.9
100°	218.1	217.4	214.6	211.8	209.0	206.0	204.1	202.7	201.5	200.2	199.0
102.5°	266.1	265.2	262.6	260.0	257.4	254.9	253.3	252.8	252.3	251.8	251.3
105°	339.2	338.3	337.0	335.7	334.4	333.2	332.4	332.1	331.8	331.5	331.1
107.5°	418.4	417.5	417.4	417.2	417.0	416.8	416.5	416.1	415.8	415.4	415.0
110°	472.6	473.3	473.5	473.9	474.2	474.6	474.4	473.7	473.1	472.5	471.8



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	528.9	529.0	529.5	530.1	530.7	531.2	531.5	531.3	531.2	531.1	530.9
115°	616.5	616.8	617.5	618.0	618.7	619.3	619.6	619.6	619.6	619.6	619.6
117.5°	701.3	702.4	702.8	703.2	703.7	704.2	704.3	704.0	703.7	703.4	703.2
120°	758.7	760.3	761.3	762.2	763.2	764.1	763.9	762.7	761.5	760.2	758.9
122.5°	816.1	817.2	817.7	818.0	818.5	819.0	818.9	818.4	817.9	817.4	816.9
125°	900.4	901.1	901.4	901.6	902.0	902.3	902.5	902.5	902.5	902.5	902.5
127.5°	981.4	982.0	982.6	983.1	983.5	984.1	983.8	982.9	981.9	981.0	980.1
130°	1038.3	1038.9	1038.9	1038.9	1038.9	1038.9	1038.4	1037.5	1036.5	1035.6	1034.6
132.5°	1091.7	1092.3	1092.6	1092.9	1093.1	1093.3	1093.2	1092.4	1091.7	1091.1	1090.3
135°	1171.9	1172.5	1172.5	1172.5	1172.5	1172.5	1171.6	1169.7	1167.7	1165.8	1163.9
137.5°	1249.5	1250.4	1249.9	1249.3	1248.9	1248.4	1247.6	1246.8	1245.9	1245.0	1244.2
140°	1300.0	1300.4	1300.4	1300.4	1300.4	1300.4	1300.0	1299.5	1298.8	1298.2	1297.6
142.5°	1348.1	1348.1	1348.4	1348.7	1348.9	1349.2	1349.0	1348.3	1347.7	1347.1	1346.4
145°	1420.9	1421.2	1420.9	1420.6	1420.2	1419.9	1419.2	1417.9	1416.6	1415.3	1414.1
147.5°	1486.6	1486.9	1487.1	1487.3	1487.6	1487.9	1487.2	1485.7	1484.2	1482.7	1481.2
150°	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.2	1525.9	1524.7	1523.3	1522.1
152.5°	1566.0	1565.3	1565.1	1564.8	1564.5	1564.3	1563.8	1563.0	1562.3	1561.5	1560.8
155°	1620.0	1618.7	1619.1	1619.4	1619.7	1620.0	1620.1	1620.1	1620.1	1620.1	1620.1
157.5°	1668.3	1667.4	1667.5	1667.5	1667.5	1667.6	1667.9	1668.5	1669.1	1669.6	1670.2
160°	1697.9	1697.0	1697.2	1697.5	1697.9	1698.2	1698.5	1698.8	1699.1	1699.4	1699.8
162.5°	1723.6	1721.9	1722.2	1722.6	1722.9	1723.2	1723.7	1724.6	1725.4	1726.3	1727.0
165°	1758.5	1756.6	1757.3	1757.8	1758.5	1759.2	1759.9	1760.9	1761.8	1762.7	1763.7
167.5°	1788.1	1786.2	1786.1	1786.0	1786.0	1785.9	1786.6	1787.9	1789.2	1790.5	1791.9
170°	1803.9	1802.0	1801.8	1801.5	1801.1	1800.8	1801.5	1803.0	1804.6	1806.2	1807.8
172.5°	1815.6	1813.5	1813.4	1813.4	1813.3	1813.2	1813.8	1815.1	1816.5	1817.8	1819.1
175°	1828.4	1826.3	1826.6	1826.8	1827.2	1827.5	1828.4	1830.0	1831.6	1833.2	1834.8
177.5°	1836.0	1834.2	1834.2	1834.2	1834.2	1834.2	1834.8	1836.1	1837.4	1838.6	1839.8
180°	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1828.6	1834.7	1842.5	1855.8	1860.6	1866.6	1875.0	1874.4	1876.8	1885.8	1905.2
5°	1835.4	1858.8	1881.3	1908.5	1937.0	1955.9	1981.4	1997.2	2013.1	2033.3	2067.9
7.5°	1838.1	1875.2	1916.6	1964.2	2006.4	2055.2	2093.3	2129.1	2161.4	2204.3	2245.6
10°	1833.9	1883.6	1937.0	1997.2	2061.2	2115.3	2164.3	2220.0	2267.4	2319.3	2366.0
12.5°	1826.1	1886.0	1957.5	2025.0	2099.7	2179.8	2240.8	2297.1	2360.1	2419.9	2491.8
15°	1808.4	1890.4	1973.9	2062.7	2162.8	2255.3	2343.4	2416.4	2484.2	2573.7	2667.8
17.5°	1785.7	1874.2	1979.6	2087.1	2191.7	2297.5	2406.5	2516.2	2601.7	2712.9	2786.5
20°	1764.7	1867.1	1975.4	2103.4	2207.9	2339.7	2448.0	2554.1	2671.5	2782.1	2870.1
22.5°	1735.2	1847.2	1962.2	2089.5	2227.2	2358.9	2484.2	2599.2	2716.7	2837.0	2943.7
25°	1697.7	1799.3	1935.5	2080.0	2217.0	2359.9	2503.7	2648.2	2774.6	2901.8	3001.1
27.5°	1633.9	1762.2	1889.0	2038.2	2190.4	2352.1	2505.8	2657.0	2789.5	2894.1	2955.6
30°	1601.4	1712.8	1850.5	2000.3	2165.0	2338.9	2499.2	2647.4	2770.9	2854.4	2879.2
32.5°	1553.2	1668.2	1802.9	1958.1	2132.5	2311.2	2478.1	2617.9	2720.8	2764.7	2734.7
35°	1481.8	1585.6	1721.8	1880.6	2061.9	2252.3	2417.2	2535.3	2587.9	2546.6	2443.4
37.5°	1396.0	1498.9	1635.7	1791.7	1979.3	2172.8	2321.9	2406.9	2389.4	2286.5	2132.9
40°	1335.8	1432.1	1562.3	1730.8	1913.7	2107.9	2238.8	2284.7	2236.6	2089.1	1925.7
42.5°	1268.9	1362.8	1493.6	1656.1	1849.9	2029.0	2143.1	2146.8	2066.1	1889.8	1725.9
45°	1167.2	1256.7	1380.2	1549.4	1728.6	1897.1	1972.4	1935.5	1786.5	1616.5	1451.6
47.5°	1066.8	1144.4	1266.0	1426.8	1596.9	1738.8	1776.1	1709.8	1551.0	1385.9	1233.1
50°	993.3	1071.6	1186.0	1339.5	1503.5	1626.3	1644.3	1556.2	1400.4	1234.2	1114.5
52.5°	922.9	1000.6	1110.8	1252.8	1403.1	1513.6	1514.3	1412.4	1257.2	1108.9	997.7
55°	819.5	889.5	988.8	1116.0	1250.0	1336.5	1315.4	1210.0	1075.3	946.7	849.6
57.5°	719.9	780.8	872.3	978.5	1096.5	1167.8	1132.8	1031.4	911.2	802.0	728.5
60°	655.4	713.4	791.6	891.7	991.1	1046.8	1013.7	921.9	811.2	723.2	659.2
62.5°	592.9	641.8	717.0	803.9	896.0	937.2	907.7	817.1	721.5	641.9	590.0
65°	504.2	544.1	604.3	678.8	745.7	781.2	756.3	672.0	599.0	541.9	500.4
67.5°	421.4	452.6	498.1	557.9	614.8	634.0	611.3	552.7	490.8	445.1	415.8
70°	364.2	393.6	432.0	477.9	527.5	547.8	525.3	478.6	428.2	386.1	357.4
72.5°	314.2	337.0	369.4	408.6	447.4	467.8	452.4	407.6	365.0	333.7	309.2
75°	239.3	258.9	281.4	309.2	339.4	353.0	339.4	308.5	279.2	255.9	238.6
77.5°	174.0	184.5	202.0	222.7	241.6	251.9	240.3	219.3	201.4	185.4	176.8
80°	132.4	140.0	152.0	168.5	181.3	191.1	183.6	166.3	152.0	141.5	137.7
82.5°	96.3	101.4	109.2	121.6	130.2	135.2	131.9	119.3	113.5	104.2	100.4
85°	47.4	50.4	55.7	59.5	67.0	67.8	68.5	63.2	58.0	55.7	52.7
87.5°	17.8	19.1	21.6	24.1	27.1	28.2	28.1	28.7	26.8	26.5	24.5
90°	7.7	11.2	14.7	18.2	21.2	23.7	26.2	28.7	31.3	33.2	35.1
92.5°	34.4	38.4	42.3	46.4	49.2	51.0	52.8	54.5	56.3	57.4	58.5
95°	88.1	91.0	93.8	96.6	99.2	101.4	103.6	105.8	108.0	109.0	109.9
97.5°	151.2	153.4	155.8	158.1	160.5	163.1	165.6	168.2	170.8	171.9	173.1
100°	200.2	201.5	202.7	204.1	206.0	209.0	211.8	214.6	217.4	218.1	218.7
102.5°	251.8	252.3	252.8	253.3	254.9	257.4	260.0	262.6	265.2	266.1	266.9
105°	331.5	331.8	332.1	332.4	333.2	334.4	335.7	337.0	338.3	339.2	340.2
107.5°	415.4	415.8	416.1	416.5	416.8	417.0	417.2	417.4	417.5	418.4	419.3
110°	472.5	473.1	473.7	474.4	474.6	474.2	473.9	473.5	473.3	472.6	472.0



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	531.1	531.2	531.3	531.5	531.2	530.7	530.1	529.5	529.0	528.9	528.7
115°	619.6	619.6	619.6	619.6	619.3	618.7	618.0	617.5	616.8	616.5	616.1
117.5°	703.4	703.7	704.0	704.3	704.2	703.7	703.2	702.8	702.4	701.3	700.2
120°	760.2	761.5	762.7	763.9	764.1	763.2	762.2	761.3	760.3	758.7	757.1
122.5°	817.4	817.9	818.4	818.9	819.0	818.5	818.0	817.7	817.2	816.1	815.0
125°	902.5	902.5	902.5	902.5	902.3	902.0	901.6	901.4	901.1	900.4	899.8
127.5°	981.0	981.9	982.9	983.8	984.1	983.5	983.1	982.6	982.0	981.4	980.8
130°	1035.6	1036.5	1037.5	1038.4	1038.9	1038.9	1038.9	1038.9	1038.9	1038.3	1037.6
132.5°	1091.1	1091.7	1092.4	1093.2	1093.3	1093.1	1092.9	1092.6	1092.3	1091.7	1091.1
135°	1165.8	1167.7	1169.7	1171.6	1172.5	1172.5	1172.5	1172.5	1172.5	1171.9	1171.2
137.5°	1245.0	1245.9	1246.8	1247.6	1248.4	1248.9	1249.3	1249.9	1250.4	1249.5	1248.8
140°	1298.2	1298.8	1299.5	1300.0	1300.4	1300.4	1300.4	1300.4	1300.4	1300.0	1299.8
142.5°	1347.1	1347.7	1348.3	1349.0	1349.2	1348.9	1348.7	1348.4	1348.1	1348.1	1348.0
145°	1415.3	1416.6	1417.9	1419.2	1419.9	1420.2	1420.6	1420.9	1421.2	1420.9	1420.6
147.5°	1482.7	1484.2	1485.7	1487.2	1487.9	1487.6	1487.3	1487.1	1486.9	1486.6	1486.4
150°	1523.3	1524.7	1525.9	1527.2	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8	1527.8
152.5°	1561.5	1562.3	1563.0	1563.8	1564.3	1564.5	1564.8	1565.1	1565.3	1566.0	1566.8
155°	1620.1	1620.1	1620.1	1620.1	1620.0	1619.7	1619.4	1619.1	1618.7	1620.0	1621.3
157.5°	1669.6	1669.1	1668.5	1667.9	1667.6	1667.5	1667.5	1667.5	1667.4	1668.3	1669.2
160°	1699.4	1699.1	1698.8	1698.5	1698.2	1697.9	1697.5	1697.2	1697.0	1697.9	1698.8
162.5°	1726.3	1725.4	1724.6	1723.7	1723.2	1722.9	1722.6	1722.2	1721.9	1723.6	1725.3
165°	1762.7	1761.8	1760.9	1759.9	1759.2	1758.5	1757.8	1757.3	1756.6	1758.5	1760.4
167.5°	1790.5	1789.2	1787.9	1786.6	1785.9	1786.0	1786.0	1786.1	1786.2	1788.1	1790.0
170°	1806.2	1804.6	1803.0	1801.5	1800.8	1801.1	1801.5	1801.8	1802.0	1803.9	1805.9
172.5°	1817.8	1816.5	1815.1	1813.8	1813.2	1813.3	1813.4	1813.4	1813.5	1815.6	1817.8
175°	1833.2	1831.6	1830.0	1828.4	1827.5	1827.2	1826.8	1826.6	1826.3	1828.4	1830.7
177.5°	1838.6	1837.4	1836.1	1834.8	1834.2	1834.2	1834.2	1834.2	1834.2	1836.0	1837.8
180°	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1914.8	1916.0	1921.4	1925.6	1926.8	1932.8	1933.4
5°	2083.0	2095.8	2120.6	2122.9	2126.7	2146.3	2131.2
7.5°	2280.2	2312.7	2334.4	2353.5	2360.4	2369.0	2367.2
10°	2406.6	2454.8	2478.9	2517.2	2518.8	2528.6	2522.5
12.5°	2533.6	2589.6	2633.6	2640.6	2672.9	2677.9	2686.2
15°	2713.7	2773.1	2834.0	2855.9	2900.3	2910.9	2927.3
17.5°	2882.9	2943.7	2986.4	3042.8	3061.0	3085.4	3068.8
20°	2975.5	3041.8	3096.0	3140.4	3159.1	3172.7	3171.2
22.5°	3031.5	3098.3	3142.2	3175.9	3193.4	3199.2	3198.9
25°	3066.6	3104.9	3118.5	3131.3	3111.7	3104.9	3107.9
27.5°	2969.1	2959.1	2923.8	2877.4	2829.2	2791.0	2770.2
30°	2834.8	2776.1	2722.7	2629.3	2581.2	2552.6	2527.1
32.5°	2644.6	2551.6	2448.7	2363.2	2308.5	2266.1	2259.7
35°	2318.6	2178.6	2053.0	1948.3	1894.1	1848.2	1837.7
37.5°	1971.2	1825.8	1712.6	1620.5	1562.3	1529.9	1499.7
40°	1740.6	1615.7	1504.3	1426.1	1381.7	1358.3	1339.5
42.5°	1563.0	1449.0	1338.1	1278.6	1238.4	1224.1	1213.1
45°	1317.7	1211.5	1134.8	1089.7	1066.3	1042.3	1031.0
47.5°	1121.2	1034.9	984.3	945.9	921.0	906.6	899.5
50°	1009.9	939.1	894.0	864.7	842.1	830.8	824.8
52.5°	911.2	853.1	815.1	791.8	776.5	768.2	765.8
55°	784.9	740.5	716.4	696.1	684.9	677.3	674.3
57.5°	682.2	648.1	628.5	611.8	607.5	601.2	599.0
60°	614.8	588.5	571.9	560.6	556.9	549.3	550.8
62.5°	555.3	533.7	519.5	513.1	508.1	501.8	503.9
65°	469.6	453.7	446.3	440.3	434.2	430.5	433.5
67.5°	394.0	383.2	373.0	369.5	366.5	365.9	362.7
70°	344.7	335.6	326.6	324.3	324.3	321.3	320.6
72.5°	297.1	290.5	284.5	282.8	280.4	281.6	278.4
75°	229.5	224.2	222.0	219.7	219.0	219.0	216.7
77.5°	169.7	165.7	162.1	162.1	159.4	158.3	158.1
80°	128.7	127.1	124.1	124.1	122.6	123.4	121.9
82.5°	96.8	94.6	94.1	92.8	90.8	90.9	89.4
85°	51.9	49.7	48.9	46.7	45.1	46.7	45.1
87.5°	25.4	25.3	24.9	23.8	23.3	23.5	21.8
90°	36.9	38.8	40.2	40.7	41.4	42.0	42.6
92.5°	59.7	60.8	61.5	61.9	62.3	62.7	63.1
95°	110.8	111.8	112.3	112.3	112.3	112.3	112.3
97.5°	174.3	175.4	176.0	176.0	176.0	176.0	176.0
100°	219.3	220.0	220.3	220.3	220.3	220.3	220.3
102.5°	267.9	268.7	269.3	269.6	269.8	270.0	270.3
105°	341.1	342.0	343.0	343.9	344.9	345.8	346.8
107.5°	420.2	421.1	421.5	421.4	421.4	421.3	421.2
110°	471.4	470.7	470.9	471.8	472.8	473.7	474.7



TEST NUMBER: P332860-830

CATALOG NUMBER: S124DIW-S1195D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	528.6	528.5	528.5	528.7	528.9	529.0	529.2
115°	615.9	615.6	615.2	614.9	614.6	614.3	614.0
117.5°	699.2	698.0	697.2	696.5	696.0	695.3	694.7
120°	755.6	754.0	753.6	754.2	754.8	755.4	756.1
122.5°	814.0	812.9	811.8	810.7	809.5	808.4	807.3
125°	899.2	898.5	897.9	897.2	896.6	896.0	895.3
127.5°	980.1	979.5	978.9	978.5	978.0	977.4	976.9
130°	1037.0	1036.3	1035.4	1034.2	1032.9	1031.6	1030.4
132.5°	1090.4	1089.8	1089.2	1088.7	1088.3	1087.7	1087.2
135°	1170.6	1170.0	1169.1	1168.2	1167.2	1166.3	1165.4
137.5°	1247.9	1247.1	1246.8	1247.0	1247.2	1247.4	1247.5
140°	1299.5	1299.1	1298.8	1298.5	1298.2	1297.9	1297.6
142.5°	1347.9	1347.9	1347.8	1347.7	1347.7	1347.6	1347.6
145°	1420.2	1419.9	1419.3	1418.3	1417.4	1416.5	1415.5
147.5°	1486.1	1485.8	1485.5	1485.3	1485.0	1484.6	1484.3
150°	1527.8	1527.8	1527.7	1527.3	1527.0	1526.7	1526.4
152.5°	1567.5	1568.3	1568.3	1567.4	1566.7	1565.8	1565.0
155°	1622.5	1623.8	1623.8	1622.5	1621.3	1620.0	1618.7
157.5°	1670.2	1671.1	1671.0	1670.0	1669.0	1667.8	1666.8
160°	1699.8	1700.7	1700.3	1698.8	1697.2	1695.6	1694.0
162.5°	1727.0	1728.7	1728.8	1727.2	1725.7	1724.1	1722.5
165°	1762.3	1764.2	1764.5	1763.2	1762.0	1760.7	1759.4
167.5°	1791.9	1793.8	1793.8	1791.8	1789.8	1787.8	1785.8
170°	1807.8	1809.7	1809.5	1807.3	1805.1	1802.9	1800.6
172.5°	1819.9	1822.0	1822.0	1819.8	1817.6	1815.3	1813.2
175°	1832.9	1835.1	1835.1	1832.9	1830.7	1828.4	1826.3
177.5°	1839.5	1841.3	1841.2	1839.1	1837.1	1835.1	1833.1
180°	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6	1837.6

(END OF REPORT)