

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: P332800-830

Luminaire Tested: **S124DIW-S795D1560U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332800-830
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-S795D1560U830-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 795 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: 8442.5 lumens
Efficiency: N/A
Efficacy: 124.0 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: Semi-Indirect

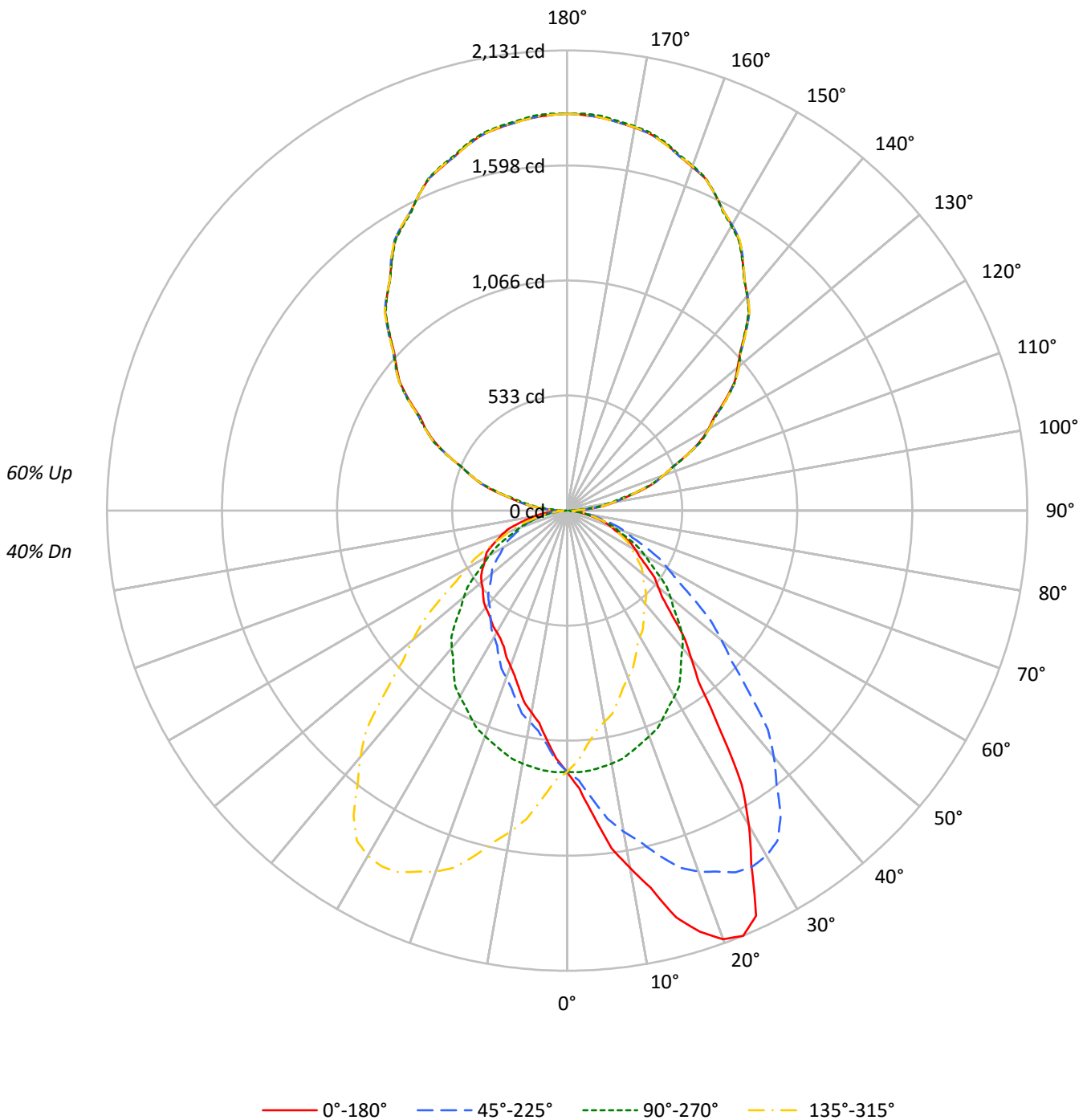
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	70	63	58	72	64	58	53	53	49	45	42	39	37	33	31	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9769	9769	9769	9769
5°	11505	9794	8645	9794
10°	13774	9752	7783	9752
15°	16298	9653	7148	9653
20°	18148	9552	6580	9552
25°	18441	9404	6188	9404
30°	15691	9261	6065	9261
35°	12064	9030	6067	9030
40°	9403	8759	6181	8759
45°	7840	8350	6284	8350
50°	6900	7851	6498	7851
55°	6321	7253	6759	7253
60°	5924	6717	7074	6717
65°	5515	6118	7335	6118
70°	5042	5526	7501	5526
75°	4504	4863	7411	4863
80°	3775	3984	7178	3984
85°	2788	2881	6873	2881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	1.4
10°-20°	363.4	4.3
20°-30°	576.2	6.8
30°-40°	641.2	7.6
40°-50°	583.7	6.9
50°-60°	477.0	5.6
60°-70°	340.5	4.0
70°-80°	187.5	2.2
80°-90°	56.7	0.7
90°-100°	121.2	1.4
100°-110°	359.1	4.3
110°-120°	609.4	7.2
120°-130°	803.6	9.5
130°-140°	902.4	10.7
140°-150°	886.8	10.5
150°-160°	745.9	8.8
160°-170°	496.2	5.9
170°-180°	173.8	2.1
0°-30°	1057.5	12.5
0°-40°	1698.7	20.1
0°-60°	2759.4	32.7
0°-90°	3344.2	39.6
90°-120°	1089.7	12.9
90°-150°	3682.5	43.6
90°-180°	5098.0	60.4
0°-180°	8442.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1210	1210	1210	1210	1210	
5°	1420	1209	1067	1209	1420	144
15°	1950	1155	855	1155	1950	551
25°	2070	1056	695	1056	2070	913
35°	1224	916	616	916	1224	777
45°	687	731	550	731	687	541
55°	449	515	480	515	449	406
65°	289	320	384	320	289	286
75°	144	156	238	156	144	154
85°	30	31	74	31	30	38
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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1287.9	1287.5	1283.5	1282.7	1279.9	1276.3	1275.4	1269.0	1256.2	1250.2	1248.6
5°	1419.7	1429.6	1416.6	1414.1	1412.6	1396.1	1387.5	1377.5	1354.4	1341.0	1330.4
7.5°	1576.9	1578.0	1572.3	1567.7	1555.0	1540.5	1518.9	1495.8	1468.4	1439.7	1418.2
10°	1680.3	1684.3	1677.8	1676.8	1651.2	1635.2	1603.1	1576.0	1544.9	1510.3	1478.8
12.5°	1789.4	1783.8	1780.5	1759.0	1754.3	1725.0	1687.7	1659.8	1611.9	1572.2	1530.1
15°	1950.0	1939.0	1931.9	1902.3	1887.8	1847.2	1807.6	1777.1	1714.4	1654.7	1609.6
17.5°	2044.2	2055.2	2039.0	2026.8	1989.2	1960.8	1920.3	1856.1	1807.1	1733.1	1676.1
20°	2112.4	2113.4	2104.4	2091.9	2062.3	2026.2	1982.1	1911.9	1853.2	1779.5	1701.4
22.5°	2130.8	2131.1	2127.2	2115.5	2093.1	2063.9	2019.4	1960.8	1889.7	1809.6	1731.5
25°	2070.3	2068.3	2072.8	2085.8	2077.3	2068.3	2042.7	1999.1	1933.0	1848.2	1764.0
27.5°	1845.3	1859.2	1884.6	1916.7	1947.6	1971.1	1977.7	1968.8	1927.8	1858.1	1769.9
30°	1683.3	1700.3	1719.4	1751.4	1813.6	1849.3	1888.3	1917.9	1901.4	1845.7	1763.5
32.5°	1505.2	1509.5	1537.8	1574.2	1631.2	1699.7	1761.6	1821.7	1841.6	1812.4	1743.9
35°	1224.1	1231.1	1261.7	1297.8	1367.5	1451.2	1544.5	1627.7	1696.3	1723.9	1688.8
37.5°	998.9	1019.1	1040.7	1079.5	1140.9	1216.2	1313.1	1420.7	1523.1	1591.7	1603.3
40°	892.3	904.8	920.4	949.9	1002.0	1076.3	1159.4	1282.8	1391.6	1489.8	1521.9
42.5°	808.0	815.4	824.9	851.7	891.4	965.2	1041.1	1149.6	1258.9	1376.3	1430.0
45°	686.7	694.3	710.3	725.9	755.9	807.1	877.7	967.0	1076.8	1190.1	1289.3
47.5°	599.2	604.0	613.5	630.1	655.6	689.4	746.9	821.4	923.1	1033.1	1138.9
50°	549.4	553.4	560.9	576.0	595.5	625.6	672.7	742.4	822.1	932.9	1036.6
52.5°	510.1	511.7	517.3	527.4	543.0	568.3	606.9	664.6	738.7	837.4	940.8
55°	449.1	451.2	456.2	463.7	477.2	493.2	522.8	565.9	630.7	716.3	806.1
57.5°	399.0	400.4	404.6	407.6	418.7	431.7	454.5	485.2	534.2	606.9	687.0
60°	366.9	365.9	371.0	373.4	381.0	392.0	409.5	439.1	481.7	540.4	614.1
62.5°	335.6	334.2	338.5	341.8	346.1	355.5	369.9	393.0	427.6	480.6	544.3
65°	288.7	286.7	289.3	293.2	297.3	302.3	312.8	333.4	360.9	399.0	447.6
67.5°	241.6	243.7	244.1	246.1	248.5	255.2	262.5	277.0	296.4	327.0	368.2
70°	213.6	214.1	216.0	216.0	217.5	223.6	229.6	238.1	257.1	285.2	318.8
72.5°	185.5	187.6	186.8	188.4	189.5	193.5	197.9	206.0	222.3	243.1	271.5
75°	144.4	145.9	145.9	146.4	147.9	149.4	152.9	158.9	170.4	186.0	205.6
77.5°	105.3	105.5	106.1	108.0	108.0	110.4	113.0	117.8	123.5	134.1	146.1
80°	81.2	82.2	81.7	82.8	82.8	84.7	85.7	91.7	94.3	101.2	110.7
82.5°	59.6	60.5	60.4	61.8	62.7	63.1	64.5	66.8	69.4	75.6	79.5
85°	30.1	31.1	30.1	31.1	32.6	33.1	34.6	35.1	37.1	38.6	42.1
87.5°	17.3	18.4	18.3	18.6	19.2	19.4	19.4	18.7	19.9	19.9	21.0
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



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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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1249.0	1243.4	1239.3	1236.1	1227.4	1222.1	1218.1	1212.5	1206.1	1199.3	1190.8
5°	1319.8	1302.8	1290.3	1271.2	1253.2	1238.1	1222.7	1208.6	1191.6	1173.0	1159.4
7.5°	1394.4	1369.0	1336.5	1308.3	1276.7	1249.1	1224.5	1199.2	1172.9	1147.5	1124.1
10°	1441.7	1409.1	1373.0	1330.4	1290.3	1254.7	1221.6	1189.6	1158.5	1127.4	1100.8
12.5°	1492.6	1452.0	1398.6	1348.9	1303.9	1256.3	1216.4	1177.1	1139.6	1106.9	1075.9
15°	1560.9	1502.3	1440.7	1374.0	1314.8	1259.2	1204.6	1155.0	1112.9	1069.7	1039.6
17.5°	1603.0	1530.4	1459.9	1390.3	1318.7	1248.5	1189.6	1132.3	1079.6	1036.7	998.8
20°	1630.7	1558.5	1470.7	1401.1	1315.9	1243.7	1175.5	1111.8	1056.7	1011.1	971.9
22.5°	1654.7	1571.3	1483.6	1391.9	1307.0	1230.5	1155.8	1091.7	1035.5	987.4	949.9
25°	1667.7	1572.0	1476.8	1385.5	1289.3	1198.5	1130.9	1055.7	995.5	944.9	904.8
27.5°	1669.1	1566.8	1459.1	1357.6	1258.3	1173.8	1088.4	1021.2	958.8	905.2	866.7
30°	1664.7	1558.0	1442.2	1332.4	1232.7	1140.9	1066.8	993.5	929.9	876.8	836.6
32.5°	1650.7	1539.5	1420.5	1304.3	1201.0	1111.3	1034.6	965.1	903.1	850.6	808.6
35°	1610.1	1500.3	1373.5	1252.7	1146.9	1056.2	987.0	916.3	854.2	804.6	763.9
37.5°	1546.6	1447.4	1318.4	1193.4	1089.6	998.4	929.9	866.0	809.9	759.5	717.9
40°	1491.3	1404.1	1274.8	1152.9	1040.7	953.9	889.8	831.1	775.5	727.8	688.2
42.5°	1427.6	1351.5	1232.3	1103.2	994.9	907.9	845.3	792.6	740.2	696.2	656.6
45°	1313.8	1263.8	1151.4	1032.2	919.4	837.2	777.5	731.4	687.3	644.1	611.1
47.5°	1183.1	1158.3	1063.8	950.5	843.4	762.3	710.6	668.0	629.3	592.9	563.6
50°	1095.3	1083.3	1001.5	892.3	790.0	713.8	661.7	625.1	592.0	560.0	532.3
52.5°	1008.7	1008.2	934.6	834.5	739.9	666.5	614.7	580.6	552.0	525.8	501.1
55°	876.3	890.2	832.6	743.4	658.6	592.5	545.9	515.3	495.3	473.7	455.2
57.5°	754.6	777.9	730.4	651.8	581.1	520.1	479.6	456.6	435.2	422.2	408.7
60°	675.2	697.3	660.2	594.0	527.4	475.2	436.6	416.0	397.5	388.5	379.0
62.5°	604.6	624.3	596.8	535.5	477.6	427.5	394.9	375.1	362.6	352.8	346.5
65°	503.8	520.3	496.8	452.1	402.6	362.4	335.8	320.3	308.3	304.3	297.3
67.5°	407.3	422.3	409.5	371.6	331.9	301.4	280.7	265.8	258.6	255.1	250.2
70°	349.9	365.0	351.4	318.3	287.8	262.2	242.6	234.1	226.6	225.1	218.0
72.5°	301.3	311.6	298.0	272.2	246.0	224.5	209.3	200.4	196.5	193.8	190.0
75°	226.1	235.1	226.1	206.0	187.5	172.5	159.4	155.9	151.4	149.9	147.4
77.5°	160.0	167.9	160.9	148.4	134.5	122.9	115.9	111.4	110.4	107.7	109.0
80°	122.3	127.3	120.8	112.3	101.2	93.2	88.2	85.7	82.8	81.7	83.7
82.5°	87.8	90.0	86.7	81.0	72.8	67.6	64.2	61.3	60.7	60.9	60.9
85°	45.6	45.1	44.6	39.6	37.1	33.6	31.6	31.1	30.5	31.6	32.6
87.5°	20.5	20.4	19.5	17.2	15.4	13.5	12.3	11.3	12.3	13.5	14.6
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: P332800-830

CATALOG NUMBER: S124DIW-S795D1560U830-4F0-1E-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: P332800-830

CATALOG NUMBER: S124DIW-S795D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1186.8	1183.3	1178.0	1170.8	1164.8	1158.4	1156.8	1154.3	1159.1	1155.2	1154.0
5°	1147.9	1137.4	1123.9	1108.3	1099.3	1086.3	1083.7	1078.7	1073.7	1073.3	1068.2
7.5°	1106.7	1091.3	1073.6	1057.7	1043.0	1028.8	1019.5	1017.5	1010.1	1005.8	1000.8
10°	1080.2	1061.2	1040.7	1025.6	1008.6	993.5	983.0	977.0	971.9	966.5	961.5
12.5°	1049.0	1028.7	1011.8	995.5	975.2	963.8	946.5	936.1	935.1	935.2	922.2
15°	1012.6	992.5	966.5	943.4	932.4	910.3	900.8	888.7	881.3	873.7	867.7
17.5°	971.0	946.0	925.7	899.2	878.2	860.6	848.1	840.8	829.5	818.9	811.2
20°	944.9	918.3	896.8	868.7	845.6	824.1	813.6	803.5	795.0	786.0	777.5
22.5°	918.4	890.7	864.3	837.1	815.6	792.9	782.7	769.0	760.9	755.9	747.4
25°	876.8	846.7	816.6	790.5	768.5	748.4	734.9	724.3	715.3	711.3	705.8
27.5°	831.4	801.5	772.5	742.9	717.8	703.3	692.5	684.6	679.3	674.0	671.6
30°	802.6	771.5	740.4	712.8	689.8	675.2	665.2	659.7	655.6	653.2	650.6
32.5°	773.3	742.6	709.9	684.8	664.1	651.2	643.6	638.0	636.0	635.1	634.2
35°	726.3	695.3	665.2	642.6	623.1	618.1	611.5	608.6	607.6	611.1	612.6
37.5°	680.9	652.1	624.4	602.6	589.7	582.4	580.1	580.3	583.9	587.0	590.6
40°	651.7	623.6	597.6	578.4	566.5	561.9	560.9	563.5	567.4	571.0	575.0
42.5°	623.2	595.5	571.8	554.0	545.6	541.5	542.1	544.6	550.2	554.5	560.5
45°	579.0	555.9	532.8	518.3	511.3	512.3	512.3	516.8	522.4	528.9	535.4
47.5°	537.3	514.2	495.1	483.0	479.3	478.4	481.3	487.1	495.0	503.1	512.2
50°	509.3	487.2	470.7	459.7	455.6	457.1	461.2	466.7	476.2	486.3	495.8
52.5°	480.8	460.8	445.4	435.2	432.4	435.1	439.1	447.8	456.2	467.0	478.5
55°	436.6	419.5	407.6	400.0	399.0	400.5	405.0	414.5	426.6	440.2	451.2
57.5°	392.6	378.3	367.3	362.1	362.6	364.0	371.5	382.8	395.6	410.0	424.2
60°	363.0	349.9	340.9	336.9	337.3	340.4	349.4	360.0	376.0	390.0	405.0
62.5°	334.9	323.4	314.8	311.2	310.5	317.1	325.7	336.7	352.7	368.3	384.6
65°	289.7	280.7	273.7	271.7	273.2	278.2	289.3	303.8	317.4	333.8	350.9
67.5°	245.6	238.2	233.4	234.3	236.1	243.6	252.8	265.2	280.6	297.7	314.6
70°	217.5	210.6	206.5	207.0	210.0	219.0	227.1	239.6	256.2	273.7	287.8
72.5°	188.7	184.1	180.5	182.6	185.6	191.8	201.8	214.3	228.8	245.2	260.0
75°	144.9	144.9	142.9	144.4	148.9	154.9	162.4	175.4	190.0	203.0	215.1
77.5°	107.4	106.4	107.6	109.5	112.1	119.2	127.8	137.1	148.1	161.1	171.1
80°	82.2	82.8	85.2	88.2	89.3	94.7	103.8	112.3	120.8	131.9	141.4
82.5°	61.7	62.3	63.5	67.4	68.3	74.3	80.1	88.6	96.3	103.8	111.7
85°	33.6	33.6	36.1	37.6	40.1	44.1	47.6	52.6	59.7	64.7	72.2
87.5°	16.5	17.1	19.1	20.5	22.1	24.7	25.9	30.6	32.6	35.1	38.9
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: P332800-830

CATALOG NUMBER: S124DIW-S795D1560U830-4F0-1E-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: P332800-830

CATALOG NUMBER: S124DIW-S795D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1153.1	1152.4	1149.5	1149.1	1149.5	1152.4	1153.1	1154.0	1155.2	1159.1	1154.3
5°	1065.3	1062.7	1061.2	1066.8	1061.2	1062.7	1065.3	1068.2	1073.3	1073.7	1078.7
7.5°	998.9	996.9	992.5	991.2	992.5	996.9	998.9	1000.8	1005.8	1010.1	1017.5
10°	956.4	954.4	950.5	949.4	950.5	954.4	956.4	961.5	966.5	971.9	977.0
12.5°	915.5	911.5	910.7	911.7	910.7	911.5	915.5	922.2	935.2	935.1	936.1
15°	861.2	859.2	853.7	855.2	853.7	859.2	861.2	867.7	873.7	881.3	888.7
17.5°	807.7	805.2	798.5	804.5	798.5	805.2	807.7	811.2	818.9	829.5	840.8
20°	774.0	770.0	766.5	765.9	766.5	770.0	774.0	777.5	786.0	795.0	803.5
22.5°	741.9	738.3	738.0	734.7	738.0	738.3	741.9	747.4	755.9	760.9	769.0
25°	701.8	698.3	697.3	694.7	697.3	698.3	701.8	705.8	711.3	715.3	724.3
27.5°	671.0	669.3	667.5	668.3	667.5	669.3	671.0	671.6	674.0	679.3	684.6
30°	652.1	651.7	650.6	650.6	650.6	651.7	652.1	650.6	653.2	655.6	659.7
32.5°	636.5	636.4	637.1	637.1	637.1	636.4	636.5	634.2	635.1	636.0	638.0
35°	614.5	616.0	617.1	615.6	617.1	616.0	614.5	612.6	611.1	607.6	608.6
37.5°	594.7	596.3	597.7	599.4	597.7	596.3	594.7	590.6	587.0	583.9	580.3
40°	579.5	583.0	584.0	586.5	584.0	583.0	579.5	575.0	571.0	567.4	563.5
42.5°	565.1	568.9	571.6	572.0	571.6	568.9	565.1	560.5	554.5	550.2	544.6
45°	542.9	546.9	550.4	550.4	550.4	546.9	542.9	535.4	528.9	522.4	516.8
47.5°	519.9	525.8	529.2	530.2	529.2	525.8	519.9	512.2	503.1	495.0	487.1
50°	504.3	511.3	514.8	517.4	514.8	511.3	504.3	495.8	486.3	476.2	466.7
52.5°	489.1	496.1	500.8	502.1	500.8	496.1	489.1	478.5	467.0	456.2	447.8
55°	462.7	472.7	478.2	480.2	478.2	472.7	462.7	451.2	440.2	426.6	414.5
57.5°	437.8	447.0	453.5	455.0	453.5	447.0	437.8	424.2	410.0	395.6	382.8
60°	418.6	428.6	436.6	438.1	436.6	428.6	418.6	405.0	390.0	376.0	360.0
62.5°	398.9	409.3	416.6	420.5	416.6	409.3	398.9	384.6	368.3	352.7	336.7
65°	365.0	375.4	382.5	384.0	382.5	375.4	365.0	350.9	333.8	317.4	303.8
67.5°	327.8	338.4	343.0	345.9	343.0	338.4	327.8	314.6	297.7	280.6	265.2
70°	301.8	310.3	315.3	317.8	315.3	310.3	301.8	287.8	273.7	256.2	239.6
72.5°	272.1	281.0	286.8	287.3	286.8	281.0	272.1	260.0	245.2	228.8	214.3
75°	226.6	234.6	237.6	237.6	237.6	234.6	226.6	215.1	203.0	190.0	175.4
77.5°	179.4	183.5	187.3	188.0	187.3	183.5	179.4	171.1	161.1	148.1	137.1
80°	148.9	151.4	154.4	154.4	154.4	151.4	148.9	141.4	131.9	120.8	112.3
82.5°	117.6	119.7	122.7	122.3	122.7	119.7	117.6	111.7	103.8	96.3	88.6
85°	71.2	75.7	75.2	74.2	75.2	75.7	71.2	72.2	64.7	59.7	52.6
87.5°	40.2	40.7	42.1	43.0	42.1	40.7	40.2	38.9	35.1	32.6	30.6
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: P332800-830

CATALOG NUMBER: S124DIW-S795D1560U830-4F0-1E-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: P332800-830

CATALOG NUMBER: S124DIW-S795D1560U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1156.8	1158.4	1164.8	1170.8	1178.0	1183.3	1186.8	1190.8	1199.3	1206.1	1212.5
5°	1083.7	1086.3	1099.3	1108.3	1123.9	1137.4	1147.9	1159.4	1173.0	1191.6	1208.6
7.5°	1019.5	1028.8	1043.0	1057.7	1073.6	1091.3	1106.7	1124.1	1147.5	1172.9	1199.2
10°	983.0	993.5	1008.6	1025.6	1040.7	1061.2	1080.2	1100.8	1127.4	1158.5	1189.6
12.5°	946.5	963.8	975.2	995.5	1011.8	1028.7	1049.0	1075.9	1106.9	1139.6	1177.1
15°	900.8	910.3	932.4	943.4	966.5	992.5	1012.6	1039.6	1069.7	1112.9	1155.0
17.5°	848.1	860.6	878.2	899.2	925.7	946.0	971.0	998.8	1036.7	1079.6	1132.3
20°	813.6	824.1	845.6	868.7	896.8	918.3	944.9	971.9	1011.1	1056.7	1111.8
22.5°	782.7	792.9	815.6	837.1	864.3	890.7	918.4	949.9	987.4	1035.5	1091.7
25°	734.9	748.4	768.5	790.5	816.6	846.7	876.8	904.8	944.9	995.5	1055.7
27.5°	692.5	703.3	717.8	742.9	772.5	801.5	831.4	866.7	905.2	958.8	1021.2
30°	665.2	675.2	689.8	712.8	740.4	771.5	802.6	836.6	876.8	929.9	993.5
32.5°	643.6	651.2	664.1	684.8	709.9	742.6	773.3	808.6	850.6	903.1	965.1
35°	611.5	618.1	623.1	642.6	665.2	695.3	726.3	763.9	804.6	854.2	916.3
37.5°	580.1	582.4	589.7	602.6	624.4	652.1	680.9	717.9	759.5	809.9	866.0
40°	560.9	561.9	566.5	578.4	597.6	623.6	651.7	688.2	727.8	775.5	831.1
42.5°	542.1	541.5	545.6	554.0	571.8	595.5	623.2	656.6	696.2	740.2	792.6
45°	512.3	512.3	511.3	518.3	532.8	555.9	579.0	611.1	644.1	687.3	731.4
47.5°	481.3	478.4	479.3	483.0	495.1	514.2	537.3	563.6	592.9	629.3	668.0
50°	461.2	457.1	455.6	459.7	470.7	487.2	509.3	532.3	560.0	592.0	625.1
52.5°	439.1	435.1	432.4	435.2	445.4	460.8	480.8	501.1	525.8	552.0	580.6
55°	405.0	400.5	399.0	400.0	407.6	419.5	436.6	455.2	473.7	495.3	515.3
57.5°	371.5	364.0	362.6	362.1	367.3	378.3	392.6	408.7	422.2	435.2	456.6
60°	349.4	340.4	337.3	336.9	340.9	349.9	363.0	379.0	388.5	397.5	416.0
62.5°	325.7	317.1	310.5	311.2	314.8	323.4	334.9	346.5	352.8	362.6	375.1
65°	289.3	278.2	273.2	271.7	273.7	280.7	289.7	297.3	304.3	308.3	320.3
67.5°	252.8	243.6	236.1	234.3	233.4	238.2	245.6	250.2	255.1	258.6	265.8
70°	227.1	219.0	210.0	207.0	206.5	210.6	217.5	218.0	225.1	226.6	234.1
72.5°	201.8	191.8	185.6	182.6	180.5	184.1	188.7	190.0	193.8	196.5	200.4
75°	162.4	154.9	148.9	144.4	142.9	144.9	144.9	147.4	149.9	151.4	155.9
77.5°	127.8	119.2	112.1	109.5	107.6	106.4	107.4	109.0	107.7	110.4	111.4
80°	103.8	94.7	89.3	88.2	85.2	82.8	82.2	83.7	81.7	82.8	85.7
82.5°	80.1	74.3	68.3	67.4	63.5	62.3	61.7	60.9	60.9	60.7	61.3
85°	47.6	44.1	40.1	37.6	36.1	33.6	33.6	32.6	31.6	30.5	31.1
87.5°	25.9	24.7	22.1	20.5	19.1	17.1	16.5	14.6	13.5	12.3	11.3
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: P332800-830

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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: P332800-830

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1218.1	1222.1	1227.4	1236.1	1239.3	1243.4	1249.0	1248.6	1250.2	1256.2	1269.0
5°	1222.7	1238.1	1253.2	1271.2	1290.3	1302.8	1319.8	1330.4	1341.0	1354.4	1377.5
7.5°	1224.5	1249.1	1276.7	1308.3	1336.5	1369.0	1394.4	1418.2	1439.7	1468.4	1495.8
10°	1221.6	1254.7	1290.3	1330.4	1373.0	1409.1	1441.7	1478.8	1510.3	1544.9	1576.0
12.5°	1216.4	1256.3	1303.9	1348.9	1398.6	1452.0	1492.6	1530.1	1572.2	1611.9	1659.8
15°	1204.6	1259.2	1314.8	1374.0	1440.7	1502.3	1560.9	1609.6	1654.7	1714.4	1777.1
17.5°	1189.6	1248.5	1318.7	1390.3	1459.9	1530.4	1603.0	1676.1	1733.1	1807.1	1856.1
20°	1175.5	1243.7	1315.9	1401.1	1470.7	1558.5	1630.7	1701.4	1779.5	1853.2	1911.9
22.5°	1155.8	1230.5	1307.0	1391.9	1483.6	1571.3	1654.7	1731.5	1809.6	1889.7	1960.8
25°	1130.9	1198.5	1289.3	1385.5	1476.8	1572.0	1667.7	1764.0	1848.2	1933.0	1999.1
27.5°	1088.4	1173.8	1258.3	1357.6	1459.1	1566.8	1669.1	1769.9	1858.1	1927.8	1968.8
30°	1066.8	1140.9	1232.7	1332.4	1442.2	1558.0	1664.7	1763.5	1845.7	1901.4	1917.9
32.5°	1034.6	1111.3	1201.0	1304.3	1420.5	1539.5	1650.7	1743.9	1812.4	1841.6	1821.7
35°	987.0	1056.2	1146.9	1252.7	1373.5	1500.3	1610.1	1688.8	1723.9	1696.3	1627.7
37.5°	929.9	998.4	1089.6	1193.4	1318.4	1447.4	1546.6	1603.3	1591.7	1523.1	1420.7
40°	889.8	953.9	1040.7	1152.9	1274.8	1404.1	1491.3	1521.9	1489.8	1391.6	1282.8
42.5°	845.3	907.9	994.9	1103.2	1232.3	1351.5	1427.6	1430.0	1376.3	1258.9	1149.6
45°	777.5	837.2	919.4	1032.2	1151.4	1263.8	1313.8	1289.3	1190.1	1076.8	967.0
47.5°	710.6	762.3	843.4	950.5	1063.8	1158.3	1183.1	1138.9	1033.1	923.1	821.4
50°	661.7	713.8	790.0	892.3	1001.5	1083.3	1095.3	1036.6	932.9	822.1	742.4
52.5°	614.7	666.5	739.9	834.5	934.6	1008.2	1008.7	940.8	837.4	738.7	664.6
55°	545.9	592.5	658.6	743.4	832.6	890.2	876.3	806.1	716.3	630.7	565.9
57.5°	479.6	520.1	581.1	651.8	730.4	777.9	754.6	687.0	606.9	534.2	485.2
60°	436.6	475.2	527.4	594.0	660.2	697.3	675.2	614.1	540.4	481.7	439.1
62.5°	394.9	427.5	477.6	535.5	596.8	624.3	604.6	544.3	480.6	427.6	393.0
65°	335.8	362.4	402.6	452.1	496.8	520.3	503.8	447.6	399.0	360.9	333.4
67.5°	280.7	301.4	331.9	371.6	409.5	422.3	407.3	368.2	327.0	296.4	277.0
70°	242.6	262.2	287.8	318.3	351.4	365.0	349.9	318.8	285.2	257.1	238.1
72.5°	209.3	224.5	246.0	272.2	298.0	311.6	301.3	271.5	243.1	222.3	206.0
75°	159.4	172.5	187.5	206.0	226.1	235.1	226.1	205.6	186.0	170.4	158.9
77.5°	115.9	122.9	134.5	148.4	160.9	167.9	160.0	146.1	134.1	123.5	117.8
80°	88.2	93.2	101.2	112.3	120.8	127.3	122.3	110.7	101.2	94.3	91.7
82.5°	64.2	67.6	72.8	81.0	86.7	90.0	87.8	79.5	75.6	69.4	66.8
85°	31.6	33.6	37.1	39.6	44.6	45.1	45.6	42.1	38.6	37.1	35.1
87.5°	12.3	13.5	15.4	17.2	19.5	20.4	20.5	21.0	19.9	19.9	18.7
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



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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



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1275.4	1276.3	1279.9	1282.7	1283.5	1287.5	1287.9
5°	1387.5	1396.1	1412.6	1414.1	1416.6	1429.6	1419.7
7.5°	1518.9	1540.5	1555.0	1567.7	1572.3	1578.0	1576.9
10°	1603.1	1635.2	1651.2	1676.8	1677.8	1684.3	1680.3
12.5°	1687.7	1725.0	1754.3	1759.0	1780.5	1783.8	1789.4
15°	1807.6	1847.2	1887.8	1902.3	1931.9	1939.0	1950.0
17.5°	1920.3	1960.8	1989.2	2026.8	2039.0	2055.2	2044.2
20°	1982.1	2026.2	2062.3	2091.9	2104.4	2113.4	2112.4
22.5°	2019.4	2063.9	2093.1	2115.5	2127.2	2131.1	2130.8
25°	2042.7	2068.3	2077.3	2085.8	2072.8	2068.3	2070.3
27.5°	1977.7	1971.1	1947.6	1916.7	1884.6	1859.2	1845.3
30°	1888.3	1849.3	1813.6	1751.4	1719.4	1700.3	1683.3
32.5°	1761.6	1699.7	1631.2	1574.2	1537.8	1509.5	1505.2
35°	1544.5	1451.2	1367.5	1297.8	1261.7	1231.1	1224.1
37.5°	1313.1	1216.2	1140.9	1079.5	1040.7	1019.1	998.9
40°	1159.4	1076.3	1002.0	949.9	920.4	904.8	892.3
42.5°	1041.1	965.2	891.4	851.7	824.9	815.4	808.0
45°	877.7	807.1	755.9	725.9	710.3	694.3	686.7
47.5°	746.9	689.4	655.6	630.1	613.5	604.0	599.2
50°	672.7	625.6	595.5	576.0	560.9	553.4	549.4
52.5°	606.9	568.3	543.0	527.4	517.3	511.7	510.1
55°	522.8	493.2	477.2	463.7	456.2	451.2	449.1
57.5°	454.5	431.7	418.7	407.6	404.6	400.4	399.0
60°	409.5	392.0	381.0	373.4	371.0	365.9	366.9
62.5°	369.9	355.5	346.1	341.8	338.5	334.2	335.6
65°	312.8	302.3	297.3	293.2	289.3	286.7	288.7
67.5°	262.5	255.2	248.5	246.1	244.1	243.7	241.6
70°	229.6	223.6	217.5	216.0	216.0	214.1	213.6
72.5°	197.9	193.5	189.5	188.4	186.8	187.6	185.5
75°	152.9	149.4	147.9	146.4	145.9	145.9	144.4
77.5°	113.0	110.4	108.0	108.0	106.1	105.5	105.3
80°	85.7	84.7	82.8	82.8	81.7	82.2	81.2
82.5°	64.5	63.1	62.7	61.8	60.4	60.5	59.6
85°	34.6	33.1	32.6	31.1	30.1	31.1	30.1
87.5°	19.4	19.4	19.2	18.6	18.3	18.4	17.3
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



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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)