

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: P331519-830

Luminaire Tested: **S122DIW-S485D1440U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331519-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S485D1440U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1440 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7454.3 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

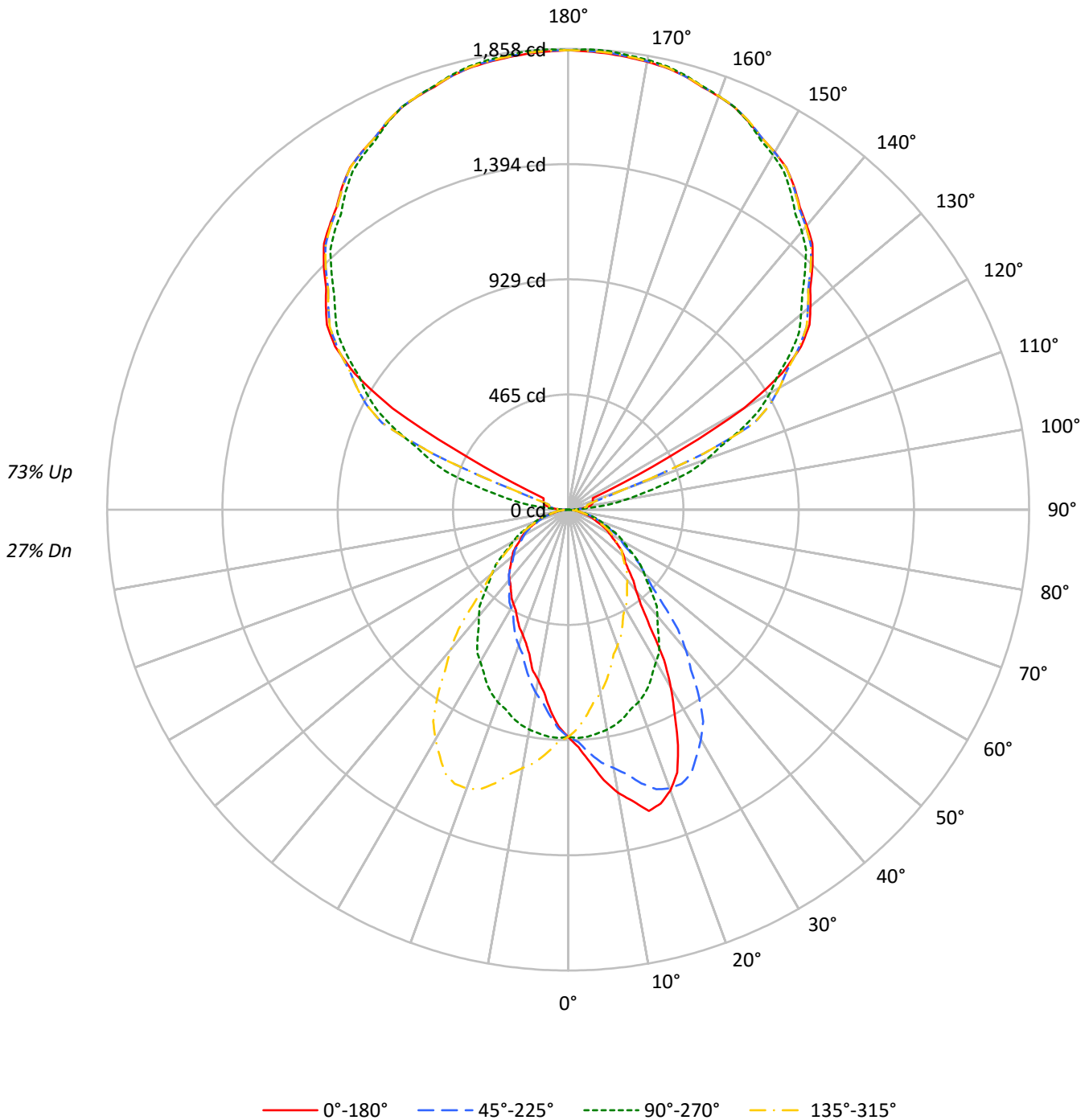
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27				
1	93	89	85	82	83	80	77	74	62	60	58	46	45	44	31	31	30	23				
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26	20				
3	77	69	62	56	69	62	56	51	48	44	41	36	34	31	25	23	22	17				
4	71	61	53	48	63	55	48	43	43	39	35	32	29	27	22	21	19	15				
5	65	54	46	41	58	49	42	37	39	34	30	29	26	24	20	18	17	13				
6	60	48	41	35	53	44	37	32	35	30	26	26	23	21	19	17	15	12				
7	55	44	36	31	49	39	33	28	31	27	23	24	21	18	17	15	13	11				
8	51	40	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12	10				
9	48	36	29	24	43	33	26	22	26	22	18	20	17	15	14	12	11	9				
10	44	33	26	22	40	30	24	20	24	20	17	19	15	13	13	11	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14788	14788	14788	14788
5°	16579	14885	13190	14885
10°	18998	14762	11416	14762
15°	21018	14492	10084	14492
20°	20697	14201	9194	14201
25°	18661	13814	8630	13814
30°	15422	13196	8216	13196
35°	11239	12552	7924	12552
40°	8977	11788	7761	11788
45°	7846	10908	7540	10908
50°	7375	10052	7392	10052
55°	6798	9185	7192	9185
60°	6229	8263	6888	8263
65°	5673	7435	6590	7435
70°	5150	6628	6151	6628
75°	4566	5733	5446	5733
80°	3924	4751	4379	4751
85°	3520	3520	2594	3520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.2
10°-20°	253.6	3.4
20°-30°	368.0	4.9
30°-40°	388.4	5.2
40°-50°	343.9	4.6
50°-60°	274.4	3.7
60°-70°	186.5	2.5
70°-80°	95.6	1.3
80°-90°	27.6	0.4
90°-100°	61.8	0.8
100°-110°	226.6	3.0
110°-120°	605.8	8.1
120°-130°	1000.0	13.4
130°-140°	1063.4	14.3
140°-150°	988.4	13.3
150°-160°	794.7	10.7
160°-170°	512.1	6.9
170°-180°	176.3	2.4
0°-30°	708.8	9.5
0°-40°	1097.2	14.7
0°-60°	1715.5	23.0
0°-90°	2025.2	27.2
90°-120°	894.2	12.0
90°-150°	3946.0	52.9
90°-180°	5429.0	72.8
0°-180°	7454.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	916	916	916	916	916	
5°	1023	918	814	918	1023	102
15°	1257	867	603	867	1257	347
25°	1048	775	484	775	1048	473
35°	570	637	402	637	570	371
45°	344	478	330	478	344	270
55°	242	326	256	326	242	217
65°	148	195	172	195	148	148
75°	73	92	87	92	73	78
85°	19	19	14	19	19	22
90°	36	1	36	1	36	17
95°	58	87	58	87	58	54
105°	102	408	102	408	102	106
115°	110	771	110	771	110	275
125°	1146	1090	1146	1090	1146	992
135°	1393	1349	1393	1349	1393	1073
145°	1589	1564	1589	1564	1589	993
155°	1724	1723	1724	1723	1724	795
165°	1811	1815	1811	1815	1811	511
175°	1846	1857	1846	1857	1846	176
180°	1853	1853	1853	1853	1853	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	958.2	958.5	958.9	954.5	953.9	953.9	950.0	946.6	942.6	937.3	937.8
5°	1022.9	1026.8	1028.2	1024.0	1017.7	1016.9	1011.0	1001.1	991.9	984.6	979.3
7.5°	1100.2	1101.7	1098.3	1092.8	1088.1	1079.6	1068.5	1057.5	1042.3	1028.2	1017.9
10°	1158.8	1160.9	1154.9	1146.8	1140.1	1130.3	1114.1	1097.5	1077.5	1058.1	1042.6
12.5°	1203.2	1208.5	1200.8	1199.8	1188.3	1174.8	1155.5	1147.1	1118.9	1091.9	1075.3
15°	1257.4	1257.0	1257.7	1251.0	1242.6	1240.5	1220.0	1197.9	1158.1	1142.3	1114.7
17.5°	1241.7	1247.1	1249.5	1249.4	1249.2	1247.9	1241.3	1227.4	1207.4	1181.8	1150.1
20°	1204.6	1211.5	1212.7	1220.8	1225.3	1231.3	1233.8	1229.9	1217.6	1196.1	1168.7
22.5°	1147.1	1149.1	1152.4	1165.0	1174.9	1189.9	1197.7	1210.7	1206.0	1195.5	1172.6
25°	1047.5	1044.1	1056.3	1062.7	1085.5	1109.5	1126.7	1145.8	1162.6	1172.9	1166.2
27.5°	928.0	922.7	941.2	958.0	976.6	1002.5	1029.4	1061.1	1087.5	1120.6	1131.9
30°	827.2	830.4	848.0	865.9	894.1	930.7	960.9	995.8	1033.5	1070.4	1096.1
32.5°	718.5	730.7	741.8	769.3	794.1	834.9	879.3	922.8	969.9	1011.8	1051.6
35°	570.2	584.3	599.8	619.9	654.7	695.2	738.5	797.3	861.4	918.7	965.9
37.5°	479.9	477.8	486.6	501.1	529.3	562.0	611.8	670.0	745.4	812.8	879.3
40°	425.9	424.5	430.8	444.2	465.7	489.7	533.3	584.3	654.4	736.7	816.0
42.5°	388.7	389.6	393.1	402.6	417.3	437.0	469.7	513.1	577.2	654.8	739.9
45°	343.6	346.0	349.9	354.5	362.9	379.1	397.4	428.4	479.1	543.8	627.6
47.5°	311.0	311.1	315.0	319.1	324.0	333.2	348.2	367.6	403.3	456.1	528.1
50°	293.6	291.1	293.9	297.1	302.4	308.7	318.6	336.9	360.8	403.4	463.5
52.5°	272.2	272.2	274.8	276.0	280.7	287.0	296.1	308.7	330.4	363.7	413.2
55°	241.5	243.3	244.7	246.8	251.0	255.5	262.6	271.1	287.9	312.9	349.5
57.5°	212.6	213.2	214.6	218.6	221.3	225.5	232.1	239.9	250.8	269.4	296.9
60°	192.9	192.9	195.7	197.5	201.0	205.2	210.5	217.9	227.7	242.9	265.0
62.5°	174.8	174.6	175.7	178.6	181.3	185.2	190.5	196.8	206.0	219.5	237.7
65°	148.5	147.9	150.0	150.6	153.4	157.3	161.6	168.2	175.7	185.5	201.7
67.5°	123.2	124.0	125.2	126.5	128.1	132.1	135.0	139.7	145.9	154.1	165.1
70°	109.1	109.1	109.1	110.2	112.3	114.4	117.3	121.1	127.1	134.1	143.9
72.5°	93.3	94.4	95.6	95.0	97.6	98.9	102.3	104.4	110.2	114.7	123.4
75°	73.2	73.2	73.2	74.9	76.1	77.1	79.2	81.3	84.2	89.7	94.3
77.5°	54.7	54.5	54.9	55.2	56.4	57.7	58.2	60.2	62.8	65.4	69.3
80°	42.2	43.0	43.3	44.0	44.0	44.7	45.1	47.5	49.3	51.1	53.5
82.5°	32.7	32.8	32.9	33.0	33.3	33.7	34.6	35.4	36.0	37.5	39.4
85°	19.0	18.7	18.7	19.3	19.0	19.0	19.7	20.5	20.5	20.7	21.9
87.5°	14.5	14.4	14.6	14.2	14.0	14.1	13.9	13.3	13.3	13.3	13.0
90°	36.2	35.6	35.0	34.4	33.8	32.8	31.3	29.8	28.3	26.8	24.4
92.5°	36.2	35.8	35.4	35.2	34.8	34.2	33.5	32.6	31.9	31.1	29.9
95°	57.7	58.0	58.2	58.5	58.8	58.2	56.7	55.2	53.7	52.3	50.2
97.5°	76.9	76.6	76.3	75.9	75.5	74.7	73.5	72.4	71.2	69.9	65.1
100°	89.8	89.3	88.6	88.0	87.5	86.0	83.6	81.2	78.8	76.4	71.4
102.5°	96.2	95.4	94.5	93.8	92.9	91.0	87.8	84.7	81.6	78.5	120.9
105°	101.9	100.7	99.5	98.3	97.1	94.9	91.6	88.3	85.0	81.8	163.1
107.5°	104.8	103.7	102.5	101.2	100.1	101.1	104.4	107.8	111.1	114.5	212.0
110°	105.9	104.7	103.5	102.4	101.1	115.5	145.2	175.0	204.8	234.6	320.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	107.0	106.0	105.1	104.2	103.1	157.0	265.7	374.4	483.1	591.7	612.9
115°	109.9	131.4	152.8	174.3	195.7	275.4	413.3	551.3	689.2	827.1	819.6
117.5°	448.8	519.2	589.7	660.3	730.8	782.7	816.1	849.4	882.8	916.2	911.0
120°	817.7	857.9	898.1	938.4	978.5	996.9	993.3	989.8	986.2	982.6	977.2
122.5°	1020.4	1028.2	1036.0	1043.8	1051.6	1054.4	1052.3	1050.2	1048.0	1045.8	1040.0
125°	1146.1	1145.3	1144.3	1143.5	1142.6	1141.0	1139.0	1136.9	1134.8	1132.7	1127.1
127.5°	1225.5	1225.3	1225.1	1224.9	1224.8	1223.1	1220.1	1217.1	1214.1	1211.1	1206.8
130°	1274.8	1275.2	1275.4	1275.7	1276.0	1274.5	1271.3	1268.0	1264.7	1261.4	1258.1
132.5°	1323.0	1323.4	1323.7	1324.0	1324.3	1323.0	1320.2	1317.4	1314.7	1311.8	1308.5
135°	1392.8	1393.4	1394.0	1394.6	1395.2	1394.0	1391.0	1388.0	1385.1	1382.1	1379.4
137.5°	1456.3	1457.4	1458.4	1459.3	1460.4	1459.4	1456.5	1453.6	1450.7	1447.7	1444.7
140°	1496.0	1497.5	1499.0	1500.5	1501.9	1501.4	1498.7	1496.0	1493.4	1490.6	1487.4
142.5°	1534.6	1536.2	1537.6	1539.1	1540.6	1540.1	1537.7	1535.2	1532.8	1530.3	1526.5
145°	1588.6	1590.0	1591.5	1593.0	1594.5	1594.2	1592.0	1590.0	1587.9	1585.8	1580.7
147.5°	1636.0	1637.2	1638.5	1639.7	1641.0	1640.9	1639.3	1637.8	1636.2	1634.7	1629.7
150°	1664.9	1666.4	1667.9	1669.4	1670.8	1670.8	1669.0	1667.2	1665.4	1663.6	1658.8
152.5°	1689.6	1691.6	1693.6	1695.4	1697.4	1697.5	1695.7	1693.9	1692.1	1690.4	1685.8
155°	1723.9	1726.3	1728.7	1731.1	1733.4	1733.7	1731.9	1730.1	1728.3	1726.5	1723.1
157.5°	1755.3	1757.6	1759.9	1762.3	1764.5	1764.7	1762.6	1760.7	1758.7	1756.6	1754.1
160°	1773.5	1775.6	1777.6	1779.8	1781.9	1782.0	1780.2	1778.4	1776.6	1774.8	1773.0
162.5°	1788.6	1791.1	1793.7	1796.2	1798.7	1799.0	1797.1	1795.0	1793.0	1790.9	1789.4
165°	1811.0	1813.2	1815.2	1817.3	1819.4	1819.4	1817.3	1815.2	1813.2	1811.0	1810.2
167.5°	1825.2	1828.0	1830.6	1833.3	1836.0	1836.3	1834.2	1832.1	1830.0	1828.0	1827.1
170°	1833.8	1836.5	1839.2	1841.9	1844.6	1844.8	1842.8	1840.7	1838.6	1836.5	1835.9
172.5°	1840.2	1843.0	1845.6	1848.3	1851.0	1851.2	1849.2	1847.1	1845.0	1843.0	1842.4
175°	1845.9	1848.9	1851.8	1854.8	1857.8	1858.2	1856.1	1854.1	1852.0	1849.9	1849.4
177.5°	1849.4	1851.5	1853.7	1855.8	1857.9	1858.2	1856.5	1854.8	1853.2	1851.5	1851.2
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	939.8	937.5	936.1	931.1	926.6	922.1	920.7	921.2	915.0	909.2	906.6
5°	976.5	969.4	962.7	953.2	942.0	929.6	923.3	918.4	906.1	892.7	885.0
7.5°	1009.3	999.2	986.3	968.5	952.1	932.6	920.3	909.5	891.4	872.5	861.0
10°	1029.3	1015.5	999.0	977.1	957.1	933.5	917.0	900.4	879.3	856.8	842.7
12.5°	1046.4	1027.9	1011.6	983.6	959.9	930.4	910.8	887.5	865.3	838.5	824.6
15°	1087.3	1053.2	1022.2	990.5	961.3	920.1	898.3	867.0	837.7	804.6	788.8
17.5°	1118.9	1080.5	1031.8	991.6	957.4	911.8	879.8	842.3	807.7	769.9	748.4
20°	1137.0	1093.0	1040.5	992.7	951.8	899.8	864.9	826.5	786.0	743.4	720.2
22.5°	1147.6	1101.5	1049.5	988.4	940.6	889.9	846.0	804.0	762.9	717.0	692.6
25°	1151.0	1108.8	1053.9	984.9	926.4	869.1	816.2	775.4	725.9	682.9	647.3
27.5°	1134.3	1104.0	1051.2	978.3	910.2	843.1	784.3	738.0	685.6	639.0	603.2
30°	1113.7	1096.1	1044.7	971.5	897.2	825.1	760.3	707.8	655.8	608.6	572.0
32.5°	1081.9	1078.1	1032.9	962.0	883.4	802.3	735.3	682.2	624.5	578.2	543.3
35°	1019.4	1036.3	1007.8	940.6	857.4	769.9	697.3	636.8	576.9	532.5	499.8
37.5°	935.7	977.6	970.2	909.2	822.4	734.5	654.4	591.2	534.1	489.4	457.2
40°	877.9	931.4	939.1	885.2	797.7	707.2	622.4	559.3	503.7	462.9	430.5
42.5°	816.0	878.4	899.8	856.6	770.6	678.4	593.6	528.4	473.3	433.6	404.9
45°	712.1	794.8	833.2	808.5	725.5	631.1	543.8	477.7	427.7	390.4	368.2
47.5°	615.0	705.4	757.1	748.3	675.2	581.8	495.6	432.1	383.4	353.6	333.8
50°	546.3	639.2	701.5	704.4	639.2	546.7	460.1	400.2	355.5	327.7	311.5
52.5°	486.6	575.3	643.3	658.2	599.0	510.0	428.2	368.7	329.3	303.8	289.3
55°	408.7	483.6	559.0	586.4	538.9	454.4	378.7	326.3	289.4	271.7	259.1
57.5°	339.8	402.3	471.8	502.2	472.9	400.6	329.6	284.1	254.1	238.7	228.9
60°	303.4	352.7	414.6	450.9	425.6	361.2	299.2	255.9	231.3	217.5	208.4
62.5°	269.7	313.3	365.6	398.8	385.0	324.2	268.8	230.5	209.3	196.4	189.8
65°	222.4	256.9	297.5	328.1	319.0	272.8	227.4	194.6	177.8	167.6	162.3
67.5°	183.1	208.1	236.2	263.0	255.6	222.9	186.5	161.0	148.4	139.6	136.5
70°	158.4	177.4	202.4	223.9	217.9	191.1	162.3	140.4	129.5	122.2	118.9
72.5°	134.8	150.3	169.5	187.0	182.9	160.7	136.7	120.2	111.8	105.0	102.4
75°	101.7	113.7	125.4	137.0	135.9	118.7	104.5	91.9	85.2	79.9	78.9
77.5°	75.1	81.8	89.7	96.6	94.7	84.8	73.8	66.5	61.6	58.1	57.5
80°	57.4	61.3	66.9	71.8	69.4	65.1	56.4	51.1	47.5	44.0	42.6
82.5°	41.6	45.5	48.8	51.6	49.7	45.7	40.2	36.7	34.6	32.1	31.6
85°	21.9	23.9	25.4	26.0	25.4	22.9	20.5	19.0	17.2	16.2	15.8
87.5°	12.8	12.3	11.9	11.9	10.4	9.7	7.9	6.5	6.9	7.3	7.3
90°	22.1	19.7	17.2	14.4	11.2	7.9	4.6	1.3	4.6	7.9	11.2
92.5°	28.7	27.5	26.3	25.9	26.2	26.5	26.8	27.1	26.8	26.5	26.2
95°	48.1	46.0	43.9	47.8	57.7	67.5	77.3	87.1	77.3	67.5	57.7
97.5°	60.3	55.5	50.7	62.1	89.8	117.5	145.2	173.0	145.2	117.5	89.8
100°	66.3	61.2	56.2	74.0	114.8	155.6	196.4	237.2	196.4	155.6	114.8
102.5°	163.2	205.7	248.0	273.5	282.1	290.8	299.4	308.0	299.4	290.8	282.1
105°	244.4	325.7	407.1	443.3	434.3	425.4	416.4	407.6	416.4	425.4	434.3
107.5°	309.5	407.1	504.6	549.8	542.5	535.4	528.1	520.9	528.1	535.4	542.5
110°	406.8	492.9	578.9	618.9	612.7	606.3	600.1	593.9	600.1	606.3	612.7



TEST NUMBER: P331519-830

CATALOG NUMBER: S122DIW-S485D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	634.2	655.5	676.7	684.7	679.1	673.5	668.0	662.5	668.0	673.5	679.1
115°	812.2	804.7	797.3	791.1	786.0	780.9	775.9	770.8	775.9	780.9	786.0
117.5°	905.9	900.7	895.6	890.2	884.6	878.9	873.3	867.6	873.3	878.9	884.6
120°	971.9	966.5	961.1	956.2	951.8	947.3	942.8	938.4	942.8	947.3	951.8
122.5°	1034.2	1028.3	1022.6	1017.3	1012.6	1007.9	1003.1	998.4	1003.1	1007.9	1012.6
125°	1121.4	1115.8	1110.1	1105.3	1101.5	1097.6	1093.7	1089.9	1093.7	1097.6	1101.5
127.5°	1202.6	1198.3	1194.1	1189.9	1185.5	1181.3	1177.0	1172.7	1177.0	1181.3	1185.5
130°	1254.9	1251.6	1248.3	1244.3	1239.5	1234.7	1230.0	1225.2	1230.0	1234.7	1239.5
132.5°	1305.2	1302.0	1298.7	1295.1	1291.0	1286.9	1282.9	1278.8	1282.9	1286.9	1291.0
135°	1376.7	1374.0	1371.3	1367.6	1362.8	1358.1	1353.3	1348.6	1353.3	1358.1	1362.8
137.5°	1441.7	1438.6	1435.6	1432.4	1429.1	1425.8	1422.4	1419.1	1422.4	1425.8	1429.1
140°	1484.1	1480.8	1477.5	1474.7	1472.3	1470.0	1467.5	1465.2	1467.5	1470.0	1472.3
142.5°	1522.9	1519.1	1515.3	1512.4	1510.2	1508.1	1505.9	1503.8	1505.9	1508.1	1510.2
145°	1575.7	1570.7	1565.6	1563.2	1563.5	1563.8	1564.1	1564.4	1564.1	1563.8	1563.5
147.5°	1624.7	1619.6	1614.6	1612.7	1613.8	1615.0	1616.1	1617.2	1616.1	1615.0	1613.8
150°	1654.1	1649.3	1644.5	1643.1	1645.3	1647.4	1649.4	1651.5	1649.4	1647.4	1645.3
152.5°	1681.3	1676.8	1672.3	1671.2	1673.5	1675.8	1678.2	1680.5	1678.2	1675.8	1673.5
155°	1719.5	1715.9	1712.3	1711.8	1714.5	1717.2	1719.9	1722.6	1719.9	1717.2	1714.5
157.5°	1751.6	1749.1	1746.6	1746.5	1748.8	1751.1	1753.3	1755.6	1753.3	1751.1	1748.8
160°	1771.3	1769.5	1767.7	1767.7	1769.5	1771.3	1773.0	1774.8	1773.0	1771.3	1769.5
162.5°	1787.8	1786.3	1784.7	1784.9	1786.7	1788.5	1790.3	1792.0	1790.3	1788.5	1786.7
165°	1809.2	1808.4	1807.5	1807.9	1809.7	1811.5	1813.3	1815.1	1813.3	1811.5	1809.7
167.5°	1826.3	1825.4	1824.6	1825.0	1826.8	1828.6	1830.4	1832.2	1830.4	1828.6	1826.8
170°	1835.3	1834.8	1834.1	1834.8	1836.5	1838.3	1840.1	1841.9	1840.1	1838.3	1836.5
172.5°	1841.7	1841.2	1840.6	1841.2	1843.0	1844.7	1846.5	1848.3	1846.5	1844.7	1843.0
175°	1848.7	1848.1	1847.6	1848.3	1850.4	1852.5	1854.5	1856.6	1854.5	1852.5	1850.4
177.5°	1851.1	1850.8	1850.6	1851.2	1852.9	1854.6	1856.3	1857.9	1856.3	1854.6	1852.9
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



TEST NUMBER: P331519-830

CATALOG NUMBER: S122DIW-S485D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	903.8	902.1	896.2	893.1	888.1	883.3	880.1	881.6	882.7	882.1	881.3
5°	877.9	871.2	861.0	852.2	845.8	834.2	829.3	826.9	824.7	822.3	819.8
7.5°	847.1	836.5	821.9	809.4	797.5	783.1	774.9	769.9	764.8	759.2	754.3
10°	825.1	810.3	794.8	777.2	763.2	750.1	738.5	730.8	723.7	717.0	712.1
12.5°	802.0	784.9	765.8	741.8	726.2	707.6	705.9	692.2	681.2	677.0	671.3
15°	765.3	741.3	717.0	688.5	676.2	659.3	648.8	638.2	628.7	622.0	620.2
17.5°	723.5	692.5	668.4	647.9	627.7	610.4	600.7	592.2	584.4	575.4	574.3
20°	691.6	665.0	638.6	620.6	599.8	582.2	570.2	561.8	555.1	549.8	545.3
22.5°	661.6	632.3	608.1	588.4	568.0	553.7	544.3	536.2	530.7	524.8	520.5
25°	613.2	590.3	563.9	541.8	524.8	515.7	507.9	500.9	497.4	493.5	488.6
27.5°	570.9	545.4	520.8	503.6	488.7	480.6	475.1	470.3	467.0	464.8	461.9
30°	541.0	515.3	496.0	479.1	466.7	458.6	455.2	452.3	448.5	447.0	445.6
32.5°	512.3	489.2	472.6	458.0	446.2	440.9	437.7	435.2	432.2	430.7	427.9
35°	471.6	452.3	436.1	428.0	418.5	414.0	411.5	407.9	405.2	403.8	403.4
37.5°	433.5	416.6	406.0	395.6	391.5	388.7	385.4	383.0	382.1	381.9	381.5
40°	408.7	394.9	385.4	377.0	375.2	371.0	368.2	366.1	366.1	366.5	366.1
42.5°	386.2	373.8	365.4	358.2	356.1	353.5	350.7	350.6	351.2	352.3	351.2
45°	352.0	343.2	337.2	333.7	329.8	327.3	327.0	328.1	328.4	328.8	329.8
47.5°	320.6	314.7	309.3	305.5	303.8	303.3	302.9	304.7	306.4	307.1	308.7
50°	302.0	295.3	290.8	288.3	286.9	286.2	286.9	289.0	290.4	292.2	293.2
52.5°	281.2	276.4	273.3	271.4	270.8	271.3	271.4	273.8	276.1	276.6	277.2
55°	252.4	248.8	248.2	245.0	246.4	246.0	247.8	249.2	251.3	253.4	253.8
57.5°	223.7	220.8	219.0	219.2	219.6	221.2	222.6	225.2	227.4	229.6	229.9
60°	204.5	203.1	202.1	202.1	202.7	204.9	206.6	209.1	210.5	211.9	212.9
62.5°	187.1	185.7	184.5	185.1	187.0	188.2	190.3	191.6	193.0	194.4	194.9
65°	159.5	158.7	159.9	160.5	160.9	162.6	165.1	166.2	167.6	168.2	170.7
67.5°	134.0	134.2	134.0	135.1	137.0	137.5	139.8	142.3	142.6	143.9	145.5
70°	116.9	117.5	118.3	118.9	120.7	121.4	123.2	124.2	125.6	126.7	127.8
72.5°	101.1	101.2	102.0	101.8	103.3	104.8	106.3	107.4	108.8	110.1	111.1
75°	77.8	77.8	78.5	78.9	80.6	82.4	82.0	82.8	84.2	85.6	86.2
77.5°	56.8	56.1	56.8	57.1	57.7	59.2	59.5	60.5	62.1	61.6	62.4
80°	43.3	42.2	43.3	43.6	43.6	45.4	45.4	46.1	47.1	46.1	47.1
82.5°	30.9	30.4	31.2	31.3	31.9	31.9	32.4	32.6	33.6	33.2	33.6
85°	15.5	15.2	15.5	15.2	15.5	15.8	15.8	15.5	15.5	16.2	15.2
87.5°	7.6	7.9	8.2	8.7	8.9	9.0	9.0	9.3	9.6	9.3	9.6
90°	14.4	17.2	19.7	22.1	24.4	26.8	28.3	29.8	31.3	32.8	33.8
92.5°	25.9	26.3	27.5	28.7	29.9	31.1	31.9	32.6	33.5	34.2	34.8
95°	47.8	43.9	46.0	48.1	50.2	52.3	53.7	55.2	56.7	58.2	58.8
97.5°	62.1	50.7	55.5	60.3	65.1	69.9	71.2	72.4	73.5	74.7	75.5
100°	74.0	56.2	61.2	66.3	71.4	76.4	78.8	81.2	83.6	86.0	87.5
102.5°	273.5	248.0	205.7	163.2	120.9	78.5	81.6	84.7	87.8	91.0	92.9
105°	443.3	407.1	325.7	244.4	163.1	81.8	85.0	88.3	91.6	94.9	97.1
107.5°	549.8	504.6	407.1	309.5	212.0	114.5	111.1	107.8	104.4	101.1	100.1
110°	618.9	578.9	492.9	406.8	320.7	234.6	204.8	175.0	145.2	115.5	101.1



TEST NUMBER: P331519-830

CATALOG NUMBER: S122DIW-S485D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	684.7	676.7	655.5	634.2	612.9	591.7	483.1	374.4	265.7	157.0	103.1
115°	791.1	797.3	804.7	812.2	819.6	827.1	689.2	551.3	413.3	275.4	195.7
117.5°	890.2	895.6	900.7	905.9	911.0	916.2	882.8	849.4	816.1	782.7	730.8
120°	956.2	961.1	966.5	971.9	977.2	982.6	986.2	989.8	993.3	996.9	978.5
122.5°	1017.3	1022.6	1028.3	1034.2	1040.0	1045.8	1048.0	1050.2	1052.3	1054.4	1051.6
125°	1105.3	1110.1	1115.8	1121.4	1127.1	1132.7	1134.8	1136.9	1139.0	1141.0	1142.6
127.5°	1189.9	1194.1	1198.3	1202.6	1206.8	1211.1	1214.1	1217.1	1220.1	1223.1	1224.8
130°	1244.3	1248.3	1251.6	1254.9	1258.1	1261.4	1264.7	1268.0	1271.3	1274.5	1276.0
132.5°	1295.1	1298.7	1302.0	1305.2	1308.5	1311.8	1314.7	1317.4	1320.2	1323.0	1324.3
135°	1367.6	1371.3	1374.0	1376.7	1379.4	1382.1	1385.1	1388.0	1391.0	1394.0	1395.2
137.5°	1432.4	1435.6	1438.6	1441.7	1444.7	1447.7	1450.7	1453.6	1456.5	1459.4	1460.4
140°	1474.7	1477.5	1480.8	1484.1	1487.4	1490.6	1493.4	1496.0	1498.7	1501.4	1501.9
142.5°	1512.4	1515.3	1519.1	1522.9	1526.5	1530.3	1532.8	1535.2	1537.7	1540.1	1540.6
145°	1563.2	1565.6	1570.7	1575.7	1580.7	1585.8	1587.9	1590.0	1592.0	1594.2	1594.5
147.5°	1612.7	1614.6	1619.6	1624.7	1629.7	1634.7	1636.2	1637.8	1639.3	1640.9	1641.0
150°	1643.1	1644.5	1649.3	1654.1	1658.8	1663.6	1665.4	1667.2	1669.0	1670.8	1670.8
152.5°	1671.2	1672.3	1676.8	1681.3	1685.8	1690.4	1692.1	1693.9	1695.7	1697.5	1697.4
155°	1711.8	1712.3	1715.9	1719.5	1723.1	1726.5	1728.3	1730.1	1731.9	1733.7	1733.4
157.5°	1746.5	1746.6	1749.1	1751.6	1754.1	1756.6	1758.7	1760.7	1762.6	1764.7	1764.5
160°	1767.7	1767.7	1769.5	1771.3	1773.0	1774.8	1776.6	1778.4	1780.2	1782.0	1781.9
162.5°	1784.9	1784.7	1786.3	1787.8	1789.4	1790.9	1793.0	1795.0	1797.1	1799.0	1798.7
165°	1807.9	1807.5	1808.4	1809.2	1810.2	1811.0	1813.2	1815.2	1817.3	1819.4	1819.4
167.5°	1825.0	1824.6	1825.4	1826.3	1827.1	1828.0	1830.0	1832.1	1834.2	1836.3	1836.0
170°	1834.8	1834.1	1834.8	1835.3	1835.9	1836.5	1838.6	1840.7	1842.8	1844.8	1844.6
172.5°	1841.2	1840.6	1841.2	1841.7	1842.4	1843.0	1845.0	1847.1	1849.2	1851.2	1851.0
175°	1848.3	1847.6	1848.1	1848.7	1849.4	1849.9	1852.0	1854.1	1856.1	1858.2	1857.8
177.5°	1851.2	1850.6	1850.8	1851.1	1851.2	1851.5	1853.2	1854.8	1856.5	1858.2	1857.9
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



TEST NUMBER: P331519-830

CATALOG NUMBER: S122DIW-S485D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	878.4	877.9	877.9	875.3	877.9	877.9	878.4	881.3	882.1	882.7	881.6
5°	814.9	813.8	812.1	813.8	812.1	813.8	814.9	819.8	822.3	824.7	826.9
7.5°	752.1	747.8	747.2	743.0	747.2	747.8	752.1	754.3	759.2	764.8	769.9
10°	706.2	703.3	702.9	696.3	702.9	703.3	706.2	712.1	717.0	723.7	730.8
12.5°	671.2	664.4	665.8	661.9	665.8	664.4	671.2	671.3	677.0	681.2	692.2
15°	610.7	610.7	609.4	603.3	609.4	610.7	610.7	620.2	622.0	628.7	638.2
17.5°	567.3	566.6	563.2	564.9	563.2	566.6	567.3	574.3	575.4	584.4	592.2
20°	541.4	539.2	535.1	535.1	535.1	539.2	541.4	545.3	549.8	555.1	561.8
22.5°	516.9	516.7	512.3	513.7	512.3	516.7	516.9	520.5	524.8	530.7	536.2
25°	488.2	485.4	483.3	484.4	483.3	485.4	488.2	488.6	493.5	497.4	500.9
27.5°	461.1	459.5	459.4	456.5	459.4	459.5	461.1	461.9	464.8	467.0	470.3
30°	445.3	441.8	442.4	440.7	442.4	441.8	445.3	445.6	447.0	448.5	452.3
32.5°	427.3	426.0	425.3	423.8	425.3	426.0	427.3	427.9	430.7	432.2	435.2
35°	402.7	403.0	401.2	402.0	401.2	403.0	402.7	403.4	403.8	405.2	407.9
37.5°	381.3	382.4	381.5	381.7	381.5	382.4	381.3	381.5	381.9	382.1	383.0
40°	367.1	367.1	367.1	368.2	367.1	367.1	367.1	366.1	366.5	366.1	366.1
42.5°	353.6	353.1	352.5	352.4	352.5	353.1	353.6	351.2	352.3	351.2	350.6
45°	330.5	331.6	332.0	330.2	332.0	331.6	330.5	329.8	328.8	328.4	328.1
47.5°	309.6	309.7	309.6	311.1	309.6	309.7	309.6	308.7	307.1	306.4	304.7
50°	295.0	294.3	295.0	294.3	295.0	294.3	295.0	293.2	292.2	290.4	289.0
52.5°	279.5	279.7	279.2	279.1	279.2	279.7	279.5	277.2	276.6	276.1	273.8
55°	255.2	255.9	255.5	255.5	255.5	255.9	255.2	253.8	253.4	251.3	249.2
57.5°	230.1	230.7	231.2	229.6	231.2	230.7	230.1	229.9	229.6	227.4	225.2
60°	212.6	214.3	214.1	213.3	214.1	214.3	212.6	212.9	211.9	210.5	209.1
62.5°	196.5	197.2	197.1	197.0	197.1	197.2	196.5	194.9	194.4	193.0	191.6
65°	171.7	172.5	171.4	172.5	171.4	172.5	171.7	170.7	168.2	167.6	166.2
67.5°	145.1	145.3	146.1	146.6	146.1	145.3	145.1	145.5	143.9	142.6	142.3
70°	128.5	128.1	129.2	130.3	129.2	128.1	128.5	127.8	126.7	125.6	124.2
72.5°	111.0	111.8	111.4	112.3	111.4	111.8	111.0	111.1	110.1	108.8	107.4
75°	85.6	86.6	86.2	87.3	86.2	86.6	85.6	86.2	85.6	84.2	82.8
77.5°	61.8	61.9	61.8	62.4	61.8	61.9	61.8	62.4	61.6	62.1	60.5
80°	47.1	46.5	45.7	47.1	45.7	46.5	47.1	47.1	46.1	47.1	46.1
82.5°	32.8	33.3	32.5	32.5	32.5	33.3	32.8	33.6	33.2	33.6	32.6
85°	15.2	14.8	14.0	14.0	14.0	14.8	15.2	15.2	16.2	15.5	15.5
87.5°	9.7	9.5	9.6	9.5	9.6	9.5	9.7	9.6	9.3	9.6	9.3
90°	34.4	35.0	35.6	36.2	35.6	35.0	34.4	33.8	32.8	31.3	29.8
92.5°	35.2	35.4	35.8	36.2	35.8	35.4	35.2	34.8	34.2	33.5	32.6
95°	58.5	58.2	58.0	57.7	58.0	58.2	58.5	58.8	58.2	56.7	55.2
97.5°	75.9	76.3	76.6	76.9	76.6	76.3	75.9	75.5	74.7	73.5	72.4
100°	88.0	88.6	89.3	89.8	89.3	88.6	88.0	87.5	86.0	83.6	81.2
102.5°	93.8	94.5	95.4	96.2	95.4	94.5	93.8	92.9	91.0	87.8	84.7
105°	98.3	99.5	100.7	101.9	100.7	99.5	98.3	97.1	94.9	91.6	88.3
107.5°	101.2	102.5	103.7	104.8	103.7	102.5	101.2	100.1	101.1	104.4	107.8
110°	102.4	103.5	104.7	105.9	104.7	103.5	102.4	101.1	115.5	145.2	175.0



TEST NUMBER: P331519-830

CATALOG NUMBER: S122DIW-S485D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	104.2	105.1	106.0	107.0	106.0	105.1	104.2	103.1	157.0	265.7	374.4
115°	174.3	152.8	131.4	109.9	131.4	152.8	174.3	195.7	275.4	413.3	551.3
117.5°	660.3	589.7	519.2	448.8	519.2	589.7	660.3	730.8	782.7	816.1	849.4
120°	938.4	898.1	857.9	817.7	857.9	898.1	938.4	978.5	996.9	993.3	989.8
122.5°	1043.8	1036.0	1028.2	1020.4	1028.2	1036.0	1043.8	1051.6	1054.4	1052.3	1050.2
125°	1143.5	1144.3	1145.3	1146.1	1145.3	1144.3	1143.5	1142.6	1141.0	1139.0	1136.9
127.5°	1224.9	1225.1	1225.3	1225.5	1225.3	1225.1	1224.9	1224.8	1223.1	1220.1	1217.1
130°	1275.7	1275.4	1275.2	1274.8	1275.2	1275.4	1275.7	1276.0	1274.5	1271.3	1268.0
132.5°	1324.0	1323.7	1323.4	1323.0	1323.4	1323.7	1324.0	1324.3	1323.0	1320.2	1317.4
135°	1394.6	1394.0	1393.4	1392.8	1393.4	1394.0	1394.6	1395.2	1394.0	1391.0	1388.0
137.5°	1459.3	1458.4	1457.4	1456.3	1457.4	1458.4	1459.3	1460.4	1459.4	1456.5	1453.6
140°	1500.5	1499.0	1497.5	1496.0	1497.5	1499.0	1500.5	1501.9	1501.4	1498.7	1496.0
142.5°	1539.1	1537.6	1536.2	1534.6	1536.2	1537.6	1539.1	1540.6	1540.1	1537.7	1535.2
145°	1593.0	1591.5	1590.0	1588.6	1590.0	1591.5	1593.0	1594.5	1594.2	1592.0	1590.0
147.5°	1639.7	1638.5	1637.2	1636.0	1637.2	1638.5	1639.7	1641.0	1640.9	1639.3	1637.8
150°	1669.4	1667.9	1666.4	1664.9	1666.4	1667.9	1669.4	1670.8	1670.8	1669.0	1667.2
152.5°	1695.4	1693.6	1691.6	1689.6	1691.6	1693.6	1695.4	1697.4	1697.5	1695.7	1693.9
155°	1731.1	1728.7	1726.3	1723.9	1726.3	1728.7	1731.1	1733.4	1733.7	1731.9	1730.1
157.5°	1762.3	1759.9	1757.6	1755.3	1757.6	1759.9	1762.3	1764.5	1764.7	1762.6	1760.7
160°	1779.8	1777.6	1775.6	1773.5	1775.6	1777.6	1779.8	1781.9	1782.0	1780.2	1778.4
162.5°	1796.2	1793.7	1791.1	1788.6	1791.1	1793.7	1796.2	1798.7	1799.0	1797.1	1795.0
165°	1817.3	1815.2	1813.2	1811.0	1813.2	1815.2	1817.3	1819.4	1819.4	1817.3	1815.2
167.5°	1833.3	1830.6	1828.0	1825.2	1828.0	1830.6	1833.3	1836.0	1836.3	1834.2	1832.1
170°	1841.9	1839.2	1836.5	1833.8	1836.5	1839.2	1841.9	1844.6	1844.8	1842.8	1840.7
172.5°	1848.3	1845.6	1843.0	1840.2	1843.0	1845.6	1848.3	1851.0	1851.2	1849.2	1847.1
175°	1854.8	1851.8	1848.9	1845.9	1848.9	1851.8	1854.8	1857.8	1858.2	1856.1	1854.1
177.5°	1855.8	1853.7	1851.5	1849.4	1851.5	1853.7	1855.8	1857.9	1858.2	1856.5	1854.8
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



TEST NUMBER: P331519-830

CATALOG NUMBER: S122DIW-S485D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	880.1	883.3	888.1	893.1	896.2	902.1	903.8	906.6	909.2	915.0	921.2
5°	829.3	834.2	845.8	852.2	861.0	871.2	877.9	885.0	892.7	906.1	918.4
7.5°	774.9	783.1	797.5	809.4	821.9	836.5	847.1	861.0	872.5	891.4	909.5
10°	738.5	750.1	763.2	777.2	794.8	810.3	825.1	842.7	856.8	879.3	900.4
12.5°	705.9	707.6	726.2	741.8	765.8	784.9	802.0	824.6	838.5	865.3	887.5
15°	648.8	659.3	676.2	688.5	717.0	741.3	765.3	788.8	804.6	837.7	867.0
17.5°	600.7	610.4	627.7	647.9	668.4	692.5	723.5	748.4	769.9	807.7	842.3
20°	570.2	582.2	599.8	620.6	638.6	665.0	691.6	720.2	743.4	786.0	826.5
22.5°	544.3	553.7	568.0	588.4	608.1	632.3	661.6	692.6	717.0	762.9	804.0
25°	507.9	515.7	524.8	541.8	563.9	590.3	613.2	647.3	682.9	725.9	775.4
27.5°	475.1	480.6	488.7	503.6	520.8	545.4	570.9	603.2	639.0	685.6	738.0
30°	455.2	458.6	466.7	479.1	496.0	515.3	541.0	572.0	608.6	655.8	707.8
32.5°	437.7	440.9	446.2	458.0	472.6	489.2	512.3	543.3	578.2	624.5	682.2
35°	411.5	414.0	418.5	428.0	436.1	452.3	471.6	499.8	532.5	576.9	636.8
37.5°	385.4	388.7	391.5	395.6	406.0	416.6	433.5	457.2	489.4	534.1	591.2
40°	368.2	371.0	375.2	377.0	385.4	394.9	408.7	430.5	462.9	503.7	559.3
42.5°	350.7	353.5	356.1	358.2	365.4	373.8	386.2	404.9	433.6	473.3	528.4
45°	327.0	327.3	329.8	333.7	337.2	343.2	352.0	368.2	390.4	427.7	477.7
47.5°	302.9	303.3	303.8	305.5	309.3	314.7	320.6	333.8	353.6	383.4	432.1
50°	286.9	286.2	286.9	288.3	290.8	295.3	302.0	311.5	327.7	355.5	400.2
52.5°	271.4	271.3	270.8	271.4	273.3	276.4	281.2	289.3	303.8	329.3	368.7
55°	247.8	246.0	246.4	245.0	248.2	248.8	252.4	259.1	271.7	289.4	326.3
57.5°	222.6	221.2	219.6	219.2	219.0	220.8	223.7	228.9	238.7	254.1	284.1
60°	206.6	204.9	202.7	202.1	202.1	203.1	204.5	208.4	217.5	231.3	255.9
62.5°	190.3	188.2	187.0	185.1	184.5	185.7	187.1	189.8	196.4	209.3	230.5
65°	165.1	162.6	160.9	160.5	159.9	158.7	159.5	162.3	167.6	177.8	194.6
67.5°	139.8	137.5	137.0	135.1	134.0	134.2	134.0	136.5	139.6	148.4	161.0
70°	123.2	121.4	120.7	118.9	118.3	117.5	116.9	118.9	122.2	129.5	140.4
72.5°	106.3	104.8	103.3	101.8	102.0	101.2	101.1	102.4	105.0	111.8	120.2
75°	82.0	82.4	80.6	78.9	78.5	77.8	77.8	78.9	79.9	85.2	91.9
77.5°	59.5	59.2	57.7	57.1	56.8	56.1	56.8	57.5	58.1	61.6	66.5
80°	45.4	45.4	43.6	43.6	43.3	42.2	43.3	42.6	44.0	47.5	51.1
82.5°	32.4	31.9	31.9	31.3	31.2	30.4	30.9	31.6	32.1	34.6	36.7
85°	15.8	15.8	15.5	15.2	15.5	15.2	15.5	15.8	16.2	17.2	19.0
87.5°	9.0	9.0	8.9	8.7	8.2	7.9	7.6	7.3	7.3	6.9	6.5
90°	28.3	26.8	24.4	22.1	19.7	17.2	14.4	11.2	7.9	4.6	1.3
92.5°	31.9	31.1	29.9	28.7	27.5	26.3	25.9	26.2	26.5	26.8	27.1
95°	53.7	52.3	50.2	48.1	46.0	43.9	47.8	57.7	67.5	77.3	87.1
97.5°	71.2	69.9	65.1	60.3	55.5	50.7	62.1	89.8	117.5	145.2	173.0
100°	78.8	76.4	71.4	66.3	61.2	56.2	74.0	114.8	155.6	196.4	237.2
102.5°	81.6	78.5	120.9	163.2	205.7	248.0	273.5	282.1	290.8	299.4	308.0
105°	85.0	81.8	163.1	244.4	325.7	407.1	443.3	434.3	425.4	416.4	407.6
107.5°	111.1	114.5	212.0	309.5	407.1	504.6	549.8	542.5	535.4	528.1	520.9
110°	204.8	234.6	320.7	406.8	492.9	578.9	618.9	612.7	606.3	600.1	593.9



TEST NUMBER: P331519-830

CATALOG NUMBER: S122DIW-S485D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	483.1	591.7	612.9	634.2	655.5	676.7	684.7	679.1	673.5	668.0	662.5
115°	689.2	827.1	819.6	812.2	804.7	797.3	791.1	786.0	780.9	775.9	770.8
117.5°	882.8	916.2	911.0	905.9	900.7	895.6	890.2	884.6	878.9	873.3	867.6
120°	986.2	982.6	977.2	971.9	966.5	961.1	956.2	951.8	947.3	942.8	938.4
122.5°	1048.0	1045.8	1040.0	1034.2	1028.3	1022.6	1017.3	1012.6	1007.9	1003.1	998.4
125°	1134.8	1132.7	1127.1	1121.4	1115.8	1110.1	1105.3	1101.5	1097.6	1093.7	1089.9
127.5°	1214.1	1211.1	1206.8	1202.6	1198.3	1194.1	1189.9	1185.5	1181.3	1177.0	1172.7
130°	1264.7	1261.4	1258.1	1254.9	1251.6	1248.3	1244.3	1239.5	1234.7	1230.0	1225.2
132.5°	1314.7	1311.8	1308.5	1305.2	1302.0	1298.7	1295.1	1291.0	1286.9	1282.9	1278.8
135°	1385.1	1382.1	1379.4	1376.7	1374.0	1371.3	1367.6	1362.8	1358.1	1353.3	1348.6
137.5°	1450.7	1447.7	1444.7	1441.7	1438.6	1435.6	1432.4	1429.1	1425.8	1422.4	1419.1
140°	1493.4	1490.6	1487.4	1484.1	1480.8	1477.5	1474.7	1472.3	1470.0	1467.5	1465.2
142.5°	1532.8	1530.3	1526.5	1522.9	1519.1	1515.3	1512.4	1510.2	1508.1	1505.9	1503.8
145°	1587.9	1585.8	1580.7	1575.7	1570.7	1565.6	1563.2	1563.5	1563.8	1564.1	1564.4
147.5°	1636.2	1634.7	1629.7	1624.7	1619.6	1614.6	1612.7	1613.8	1615.0	1616.1	1617.2
150°	1665.4	1663.6	1658.8	1654.1	1649.3	1644.5	1643.1	1645.3	1647.4	1649.4	1651.5
152.5°	1692.1	1690.4	1685.8	1681.3	1676.8	1672.3	1671.2	1673.5	1675.8	1678.2	1680.5
155°	1728.3	1726.5	1723.1	1719.5	1715.9	1712.3	1711.8	1714.5	1717.2	1719.9	1722.6
157.5°	1758.7	1756.6	1754.1	1751.6	1749.1	1746.6	1746.5	1748.8	1751.1	1753.3	1755.6
160°	1776.6	1774.8	1773.0	1771.3	1769.5	1767.7	1767.7	1769.5	1771.3	1773.0	1774.8
162.5°	1793.0	1790.9	1789.4	1787.8	1786.3	1784.7	1784.9	1786.7	1788.5	1790.3	1792.0
165°	1813.2	1811.0	1810.2	1809.2	1808.4	1807.5	1807.9	1809.7	1811.5	1813.3	1815.1
167.5°	1830.0	1828.0	1827.1	1826.3	1825.4	1824.6	1825.0	1826.8	1828.6	1830.4	1832.2
170°	1838.6	1836.5	1835.9	1835.3	1834.8	1834.1	1834.8	1836.5	1838.3	1840.1	1841.9
172.5°	1845.0	1843.0	1842.4	1841.7	1841.2	1840.6	1841.2	1843.0	1844.7	1846.5	1848.3
175°	1852.0	1849.9	1849.4	1848.7	1848.1	1847.6	1848.3	1850.4	1852.5	1854.5	1856.6
177.5°	1853.2	1851.5	1851.2	1851.1	1850.8	1850.6	1851.2	1852.9	1854.6	1856.3	1857.9
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



TEST NUMBER: P331519-830

CATALOG NUMBER: S122DIW-S485D1440U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	920.7	922.1	926.6	931.1	936.1	937.5	939.8	937.8	937.3	942.6	946.6
5°	923.3	929.6	942.0	953.2	962.7	969.4	976.5	979.3	984.6	991.9	1001.1
7.5°	920.3	932.6	952.1	968.5	986.3	999.2	1009.3	1017.9	1028.2	1042.3	1057.5
10°	917.0	933.5	957.1	977.1	999.0	1015.5	1029.3	1042.6	1058.1	1077.5	1097.5
12.5°	910.8	930.4	959.9	983.6	1011.6	1027.9	1046.4	1075.3	1091.9	1118.9	1147.1
15°	898.3	920.1	961.3	990.5	1022.2	1053.2	1087.3	1114.7	1142.3	1158.1	1197.9
17.5°	879.8	911.8	957.4	991.6	1031.8	1080.5	1118.9	1150.1	1181.8	1207.4	1227.4
20°	864.9	899.8	951.8	992.7	1040.5	1093.0	1137.0	1168.7	1196.1	1217.6	1229.9
22.5°	846.0	889.9	940.6	988.4	1049.5	1101.5	1147.6	1172.6	1195.5	1206.0	1210.7
25°	816.2	869.1	926.4	984.9	1053.9	1108.8	1151.0	1166.2	1172.9	1162.6	1145.8
27.5°	784.3	843.1	910.2	978.3	1051.2	1104.0	1134.3	1131.9	1120.6	1087.5	1061.1
30°	760.3	825.1	897.2	971.5	1044.7	1096.1	1113.7	1096.1	1070.4	1033.5	995.8
32.5°	735.3	802.3	883.4	962.0	1032.9	1078.1	1081.9	1051.6	1011.8	969.9	922.8
35°	697.3	769.9	857.4	940.6	1007.8	1036.3	1019.4	965.9	918.7	861.4	797.3
37.5°	654.4	734.5	822.4	909.2	970.2	977.6	935.7	879.3	812.8	745.4	670.0
40°	622.4	707.2	797.7	885.2	939.1	931.4	877.9	816.0	736.7	654.4	584.3
42.5°	593.6	678.4	770.6	856.6	899.8	878.4	816.0	739.9	654.8	577.2	513.1
45°	543.8	631.1	725.5	808.5	833.2	794.8	712.1	627.6	543.8	479.1	428.4
47.5°	495.6	581.8	675.2	748.3	757.1	705.4	615.0	528.1	456.1	403.3	367.6
50°	460.1	546.7	639.2	704.4	701.5	639.2	546.3	463.5	403.4	360.8	336.9
52.5°	428.2	510.0	599.0	658.2	643.3	575.3	486.6	413.2	363.7	330.4	308.7
55°	378.7	454.4	538.9	586.4	559.0	483.6	408.7	349.5	312.9	287.9	271.1
57.5°	329.6	400.6	472.9	502.2	471.8	402.3	339.8	296.9	269.4	250.8	239.9
60°	299.2	361.2	425.6	450.9	414.6	352.7	303.4	265.0	242.9	227.7	217.9
62.5°	268.8	324.2	385.0	398.8	365.6	313.3	269.7	237.7	219.5	206.0	196.8
65°	227.4	272.8	319.0	328.1	297.5	256.9	222.4	201.7	185.5	175.7	168.2
67.5°	186.5	222.9	255.6	263.0	236.2	208.1	183.1	165.1	154.1	145.9	139.7
70°	162.3	191.1	217.9	223.9	202.4	177.4	158.4	143.9	134.1	127.1	121.1
72.5°	136.7	160.7	182.9	187.0	169.5	150.3	134.8	123.4	114.7	110.2	104.4
75°	104.5	118.7	135.9	137.0	125.4	113.7	101.7	94.3	89.7	84.2	81.3
77.5°	73.8	84.8	94.7	96.6	89.7	81.8	75.1	69.3	65.4	62.8	60.2
80°	56.4	65.1	69.4	71.8	66.9	61.3	57.4	53.5	51.1	49.3	47.5
82.5°	40.2	45.7	49.7	51.6	48.8	45.5	41.6	39.4	37.5	36.0	35.4
85°	20.5	22.9	25.4	26.0	25.4	23.9	21.9	21.9	20.7	20.5	20.5
87.5°	7.9	9.7	10.4	11.9	11.9	12.3	12.8	13.0	13.3	13.3	13.3
90°	4.6	7.9	11.2	14.4	17.2	19.7	22.1	24.4	26.8	28.3	29.8
92.5°	26.8	26.5	26.2	25.9	26.3	27.5	28.7	29.9	31.1	31.9	32.6
95°	77.3	67.5	57.7	47.8	43.9	46.0	48.1	50.2	52.3	53.7	55.2
97.5°	145.2	117.5	89.8	62.1	50.7	55.5	60.3	65.1	69.9	71.2	72.4
100°	196.4	155.6	114.8	74.0	56.2	61.2	66.3	71.4	76.4	78.8	81.2
102.5°	299.4	290.8	282.1	273.5	248.0	205.7	163.2	120.9	78.5	81.6	84.7
105°	416.4	425.4	434.3	443.3	407.1	325.7	244.4	163.1	81.8	85.0	88.3
107.5°	528.1	535.4	542.5	549.8	504.6	407.1	309.5	212.0	114.5	111.1	107.8
110°	600.1	606.3	612.7	618.9	578.9	492.9	406.8	320.7	234.6	204.8	175.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	668.0	673.5	679.1	684.7	676.7	655.5	634.2	612.9	591.7	483.1	374.4
115°	775.9	780.9	786.0	791.1	797.3	804.7	812.2	819.6	827.1	689.2	551.3
117.5°	873.3	878.9	884.6	890.2	895.6	900.7	905.9	911.0	916.2	882.8	849.4
120°	942.8	947.3	951.8	956.2	961.1	966.5	971.9	977.2	982.6	986.2	989.8
122.5°	1003.1	1007.9	1012.6	1017.3	1022.6	1028.3	1034.2	1040.0	1045.8	1048.0	1050.2
125°	1093.7	1097.6	1101.5	1105.3	1110.1	1115.8	1121.4	1127.1	1132.7	1134.8	1136.9
127.5°	1177.0	1181.3	1185.5	1189.9	1194.1	1198.3	1202.6	1206.8	1211.1	1214.1	1217.1
130°	1230.0	1234.7	1239.5	1244.3	1248.3	1251.6	1254.9	1258.1	1261.4	1264.7	1268.0
132.5°	1282.9	1286.9	1291.0	1295.1	1298.7	1302.0	1305.2	1308.5	1311.8	1314.7	1317.4
135°	1353.3	1358.1	1362.8	1367.6	1371.3	1374.0	1376.7	1379.4	1382.1	1385.1	1388.0
137.5°	1422.4	1425.8	1429.1	1432.4	1435.6	1438.6	1441.7	1444.7	1447.7	1450.7	1453.6
140°	1467.5	1470.0	1472.3	1474.7	1477.5	1480.8	1484.1	1487.4	1490.6	1493.4	1496.0
142.5°	1505.9	1508.1	1510.2	1512.4	1515.3	1519.1	1522.9	1526.5	1530.3	1532.8	1535.2
145°	1564.1	1563.8	1563.5	1563.2	1565.6	1570.7	1575.7	1580.7	1585.8	1587.9	1590.0
147.5°	1616.1	1615.0	1613.8	1612.7	1614.6	1619.6	1624.7	1629.7	1634.7	1636.2	1637.8
150°	1649.4	1647.4	1645.3	1643.1	1644.5	1649.3	1654.1	1658.8	1663.6	1665.4	1667.2
152.5°	1678.2	1675.8	1673.5	1671.2	1672.3	1676.8	1681.3	1685.8	1690.4	1692.1	1693.9
155°	1719.9	1717.2	1714.5	1711.8	1712.3	1715.9	1719.5	1723.1	1726.5	1728.3	1730.1
157.5°	1753.3	1751.1	1748.8	1746.5	1746.6	1749.1	1751.6	1754.1	1756.6	1758.7	1760.7
160°	1773.0	1771.3	1769.5	1767.7	1767.7	1769.5	1771.3	1773.0	1774.8	1776.6	1778.4
162.5°	1790.3	1788.5	1786.7	1784.9	1784.7	1786.3	1787.8	1789.4	1790.9	1793.0	1795.0
165°	1813.3	1811.5	1809.7	1807.9	1807.5	1808.4	1809.2	1810.2	1811.0	1813.2	1815.2
167.5°	1830.4	1828.6	1826.8	1825.0	1824.6	1825.4	1826.3	1827.1	1828.0	1830.0	1832.1
170°	1840.1	1838.3	1836.5	1834.8	1834.1	1834.8	1835.3	1835.9	1836.5	1838.6	1840.7
172.5°	1846.5	1844.7	1843.0	1841.2	1840.6	1841.2	1841.7	1842.4	1843.0	1845.0	1847.1
175°	1854.5	1852.5	1850.4	1848.3	1847.6	1848.1	1848.7	1849.4	1849.9	1852.0	1854.1
177.5°	1856.3	1854.6	1852.9	1851.2	1850.6	1850.8	1851.1	1851.2	1851.5	1853.2	1854.8
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	950.0	953.9	953.9	954.5	958.9	958.5	958.2
5°	1011.0	1016.9	1017.7	1024.0	1028.2	1026.8	1022.9
7.5°	1068.5	1079.6	1088.1	1092.8	1098.3	1101.7	1100.2
10°	1114.1	1130.3	1140.1	1146.8	1154.9	1160.9	1158.8
12.5°	1155.5	1174.8	1188.3	1199.8	1200.8	1208.5	1203.2
15°	1220.0	1240.5	1242.6	1251.0	1257.7	1257.0	1257.4
17.5°	1241.3	1247.9	1249.2	1249.4	1249.5	1247.1	1241.7
20°	1233.8	1231.3	1225.3	1220.8	1212.7	1211.5	1204.6
22.5°	1197.7	1189.9	1174.9	1165.0	1152.4	1149.1	1147.1
25°	1126.7	1109.5	1085.5	1062.7	1056.3	1044.1	1047.5
27.5°	1029.4	1002.5	976.6	958.0	941.2	922.7	928.0
30°	960.9	930.7	894.1	865.9	848.0	830.4	827.2
32.5°	879.3	834.9	794.1	769.3	741.8	730.7	718.5
35°	738.5	695.2	654.7	619.9	599.8	584.3	570.2
37.5°	611.8	562.0	529.3	501.1	486.6	477.8	479.9
40°	533.3	489.7	465.7	444.2	430.8	424.5	425.9
42.5°	469.7	437.0	417.3	402.6	393.1	389.6	388.7
45°	397.4	379.1	362.9	354.5	349.9	346.0	343.6
47.5°	348.2	333.2	324.0	319.1	315.0	311.1	311.0
50°	318.6	308.7	302.4	297.1	293.9	291.1	293.6
52.5°	296.1	287.0	280.7	276.0	274.8	272.2	272.2
55°	262.6	255.5	251.0	246.8	244.7	243.3	241.5
57.5°	232.1	225.5	221.3	218.6	214.6	213.2	212.6
60°	210.5	205.2	201.0	197.5	195.7	192.9	192.9
62.5°	190.5	185.2	181.3	178.6	175.7	174.6	174.8
65°	161.6	157.3	153.4	150.6	150.0	147.9	148.5
67.5°	135.0	132.1	128.1	126.5	125.2	124.0	123.2
70°	117.3	114.4	112.3	110.2	109.1	109.1	109.1
72.5°	102.3	98.9	97.6	95.0	95.6	94.4	93.3
75°	79.2	77.1	76.1	74.9	73.2	73.2	73.2
77.5°	58.2	57.7	56.4	55.2	54.9	54.5	54.7
80°	45.1	44.7	44.0	44.0	43.3	43.0	42.2
82.5°	34.6	33.7	33.3	33.0	32.9	32.8	32.7
85°	19.7	19.0	19.0	19.3	18.7	18.7	19.0
87.5°	13.9	14.1	14.0	14.2	14.6	14.4	14.5
90°	31.3	32.8	33.8	34.4	35.0	35.6	36.2
92.5°	33.5	34.2	34.8	35.2	35.4	35.8	36.2
95°	56.7	58.2	58.8	58.5	58.2	58.0	57.7
97.5°	73.5	74.7	75.5	75.9	76.3	76.6	76.9
100°	83.6	86.0	87.5	88.0	88.6	89.3	89.8
102.5°	87.8	91.0	92.9	93.8	94.5	95.4	96.2
105°	91.6	94.9	97.1	98.3	99.5	100.7	101.9
107.5°	104.4	101.1	100.1	101.2	102.5	103.7	104.8
110°	145.2	115.5	101.1	102.4	103.5	104.7	105.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	265.7	157.0	103.1	104.2	105.1	106.0	107.0
115°	413.3	275.4	195.7	174.3	152.8	131.4	109.9
117.5°	816.1	782.7	730.8	660.3	589.7	519.2	448.8
120°	993.3	996.9	978.5	938.4	898.1	857.9	817.7
122.5°	1052.3	1054.4	1051.6	1043.8	1036.0	1028.2	1020.4
125°	1139.0	1141.0	1142.6	1143.5	1144.3	1145.3	1146.1
127.5°	1220.1	1223.1	1224.8	1224.9	1225.1	1225.3	1225.5
130°	1271.3	1274.5	1276.0	1275.7	1275.4	1275.2	1274.8
132.5°	1320.2	1323.0	1324.3	1324.0	1323.7	1323.4	1323.0
135°	1391.0	1394.0	1395.2	1394.6	1394.0	1393.4	1392.8
137.5°	1456.5	1459.4	1460.4	1459.3	1458.4	1457.4	1456.3
140°	1498.7	1501.4	1501.9	1500.5	1499.0	1497.5	1496.0
142.5°	1537.7	1540.1	1540.6	1539.1	1537.6	1536.2	1534.6
145°	1592.0	1594.2	1594.5	1593.0	1591.5	1590.0	1588.6
147.5°	1639.3	1640.9	1641.0	1639.7	1638.5	1637.2	1636.0
150°	1669.0	1670.8	1670.8	1669.4	1667.9	1666.4	1664.9
152.5°	1695.7	1697.5	1697.4	1695.4	1693.6	1691.6	1689.6
155°	1731.9	1733.7	1733.4	1731.1	1728.7	1726.3	1723.9
157.5°	1762.6	1764.7	1764.5	1762.3	1759.9	1757.6	1755.3
160°	1780.2	1782.0	1781.9	1779.8	1777.6	1775.6	1773.5
162.5°	1797.1	1799.0	1798.7	1796.2	1793.7	1791.1	1788.6
165°	1817.3	1819.4	1819.4	1817.3	1815.2	1813.2	1811.0
167.5°	1834.2	1836.3	1836.0	1833.3	1830.6	1828.0	1825.2
170°	1842.8	1844.8	1844.6	1841.9	1839.2	1836.5	1833.8
172.5°	1849.2	1851.2	1851.0	1848.3	1845.6	1843.0	1840.2
175°	1856.1	1858.2	1857.8	1854.8	1851.8	1848.9	1845.9
177.5°	1856.5	1858.2	1857.9	1855.8	1853.7	1851.5	1849.4
180°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6

(END OF REPORT)