

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: P331519-930

Luminaire Tested: **S122DIW-S485D1440U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331519-930
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-S485D1440U930-4F0-1E-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: 6448.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

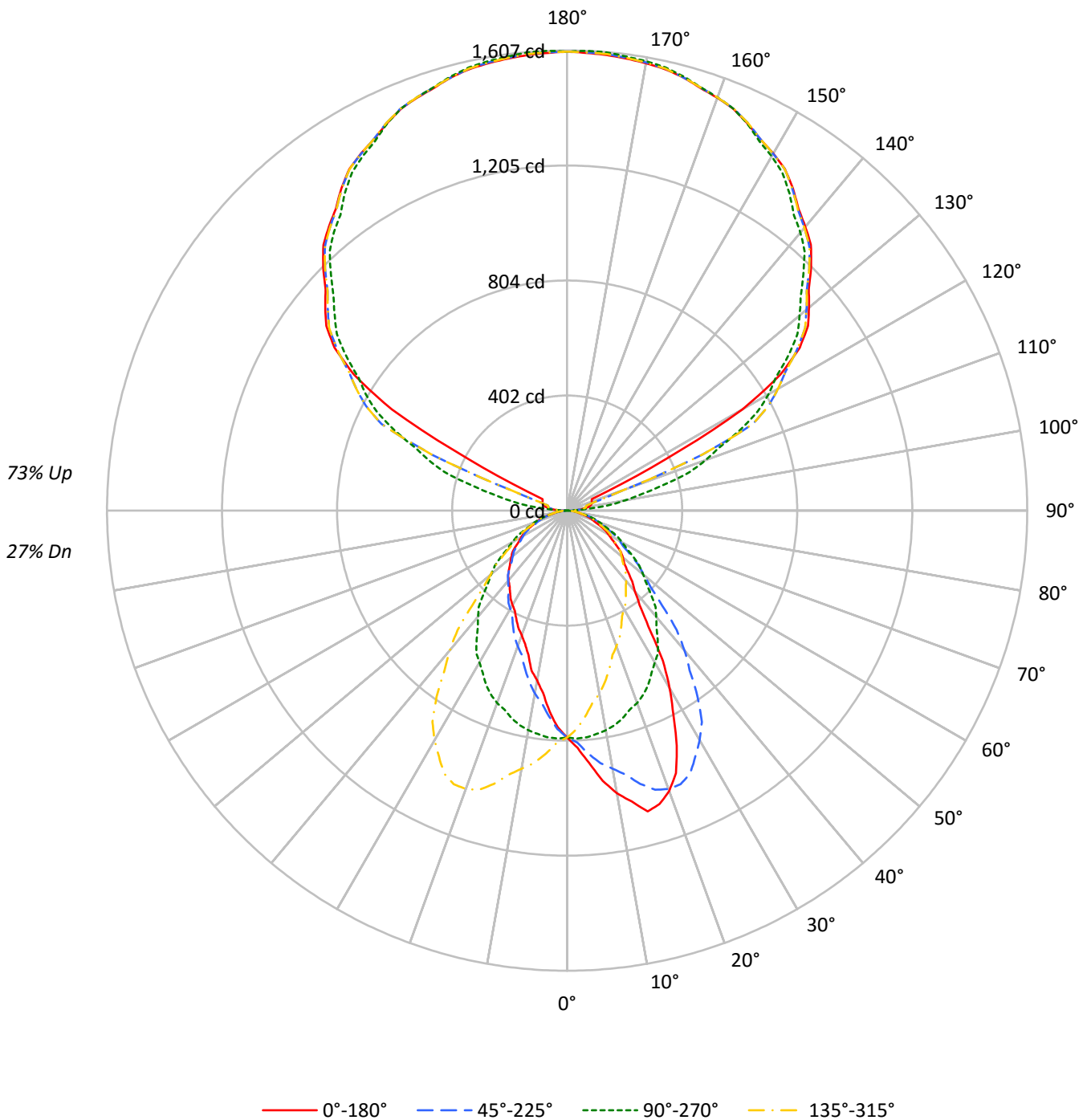
Input Watts (W): 60.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12791	12791	12791	12791
5°	14340	12875	11408	12875
10°	16433	12770	9875	12770
15°	18180	12535	8724	12535
20°	17904	12283	7952	12283
25°	16142	11948	7464	11948
30°	13340	11415	7107	11415
35°	9723	10857	6853	10857
40°	7765	10197	6713	10197
45°	6786	9435	6521	9435
50°	6380	8696	6393	8696
55°	5880	7947	6221	7947
60°	5389	7149	5958	7149
65°	4909	6434	5700	6434
70°	4456	5736	5320	5736
75°	3949	4959	4710	4959
80°	3394	4110	3794	4110
85°	3057	3057	2242	3057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.2
10°-20°	219.3	3.4
20°-30°	318.3	4.9
30°-40°	335.9	5.2
40°-50°	297.4	4.6
50°-60°	237.4	3.7
60°-70°	161.3	2.5
70°-80°	82.7	1.3
80°-90°	23.9	0.4
90°-100°	53.5	0.8
100°-110°	196.0	3.0
110°-120°	524.0	8.1
120°-130°	865.0	13.4
130°-140°	919.9	14.3
140°-150°	855.0	13.3
150°-160°	687.4	10.7
160°-170°	443.0	6.9
170°-180°	152.5	2.4
0°-30°	613.1	9.5
0°-40°	949.1	14.7
0°-60°	1483.9	23.0
0°-90°	1751.8	27.2
90°-120°	773.5	12.0
90°-150°	3413.3	52.9
90°-180°	4696.0	72.8
0°-180°	6448.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	792	792	792	792	792	
5°	885	794	704	794	885	88
15°	1088	750	522	750	1088	300
25°	906	671	419	671	906	410
35°	493	551	348	551	493	321
45°	297	413	286	413	297	234
55°	209	282	221	282	209	187
65°	128	168	149	168	128	128
75°	63	80	76	80	63	68
85°	16	16	12	16	16	19
90°	31	1	31	1	31	15
95°	50	75	50	75	50	47
105°	88	352	88	352	88	92
115°	95	667	95	667	95	238
125°	991	943	991	943	991	858
135°	1205	1166	1205	1166	1205	929
145°	1374	1353	1374	1353	1374	859
155°	1491	1490	1491	1490	1491	688
165°	1566	1570	1566	1570	1566	442
175°	1597	1606	1597	1606	1597	152
180°	1602	1602	1602	1602	1602	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	828.8	829.1	829.5	825.7	825.2	825.2	821.7	818.8	815.4	810.7	811.2
5°	884.8	888.2	889.4	885.7	880.3	879.6	874.5	865.9	858.0	851.7	847.1
7.5°	951.7	953.0	950.1	945.3	941.2	933.8	924.2	914.8	901.6	889.4	880.4
10°	1002.3	1004.2	999.0	992.0	986.2	977.7	963.7	949.3	932.1	915.3	901.9
12.5°	1040.8	1045.4	1038.7	1037.8	1027.8	1016.2	999.5	992.2	967.8	944.5	930.1
15°	1087.6	1087.3	1087.9	1082.1	1074.8	1073.0	1055.3	1036.2	1001.8	988.1	964.3
17.5°	1074.1	1078.7	1080.8	1080.8	1080.6	1079.5	1073.7	1061.7	1044.4	1022.2	994.8
20°	1042.0	1048.0	1049.0	1056.0	1059.9	1065.1	1067.2	1063.9	1053.2	1034.6	1010.9
22.5°	992.2	993.9	996.8	1007.7	1016.3	1029.2	1036.0	1047.3	1043.2	1034.1	1014.3
25°	906.1	903.1	913.7	919.2	939.0	959.7	974.6	991.1	1005.7	1014.6	1008.8
27.5°	802.7	798.2	814.2	828.7	844.7	867.2	890.4	917.9	940.7	969.3	979.1
30°	715.5	718.3	733.5	749.0	773.4	805.0	831.2	861.4	894.0	925.9	948.1
32.5°	621.5	632.0	641.6	665.4	686.9	722.2	760.6	798.3	838.9	875.2	909.6
35°	493.3	505.4	518.9	536.2	566.3	601.4	638.8	689.7	745.1	794.7	835.5
37.5°	415.2	413.3	420.9	433.5	457.9	486.2	529.2	579.5	644.7	703.0	760.6
40°	368.4	367.2	372.7	384.3	402.8	423.5	461.3	505.4	566.1	637.2	705.8
42.5°	336.2	337.0	340.1	348.2	360.9	378.0	406.3	443.8	499.3	566.4	640.0
45°	297.2	299.3	302.6	306.6	313.9	327.9	343.7	370.6	414.4	470.4	542.9
47.5°	269.0	269.1	272.5	276.0	280.3	288.2	301.2	318.0	348.9	394.5	456.8
50°	254.0	251.8	254.2	257.0	261.5	267.0	275.6	291.4	312.1	348.9	401.0
52.5°	235.5	235.5	237.7	238.7	242.8	248.3	256.1	267.0	285.8	314.6	357.4
55°	208.9	210.4	211.7	213.4	217.1	221.0	227.1	234.5	249.1	270.7	302.3
57.5°	183.9	184.4	185.6	189.1	191.4	195.0	200.8	207.5	217.0	233.0	256.8
60°	166.9	166.9	169.3	170.8	173.8	177.5	182.1	188.5	197.0	210.1	229.3
62.5°	151.2	151.0	152.0	154.5	156.8	160.2	164.8	170.2	178.2	189.9	205.6
65°	128.5	127.9	129.7	130.3	132.7	136.1	139.7	145.5	152.0	160.5	174.5
67.5°	106.6	107.3	108.3	109.4	110.8	114.3	116.8	120.8	126.2	133.3	142.8
70°	94.4	94.4	94.4	95.3	97.1	99.0	101.4	104.8	109.9	116.0	124.5
72.5°	80.7	81.7	82.7	82.2	84.5	85.5	88.5	90.3	95.3	99.2	106.7
75°	63.3	63.3	63.3	64.8	65.8	66.7	68.5	70.4	72.8	77.6	81.6
77.5°	47.3	47.1	47.5	47.8	48.8	49.9	50.4	52.1	54.3	56.6	59.9
80°	36.5	37.2	37.4	38.1	38.1	38.6	39.0	41.1	42.6	44.2	46.3
82.5°	28.3	28.4	28.5	28.5	28.8	29.2	29.9	30.7	31.1	32.4	34.1
85°	16.5	16.1	16.1	16.7	16.5	16.5	17.0	17.7	17.7	17.9	18.9
87.5°	12.6	12.5	12.6	12.3	12.1	12.2	12.0	11.5	11.5	11.5	11.3
90°	31.3	30.8	30.2	29.8	29.3	28.4	27.1	25.8	24.5	23.2	21.1
92.5°	31.3	31.0	30.7	30.4	30.1	29.6	28.9	28.2	27.6	26.9	25.8
95°	49.9	50.1	50.4	50.6	50.9	50.4	49.1	47.8	46.5	45.2	43.5
97.5°	66.5	66.3	66.0	65.6	65.3	64.7	63.6	62.6	61.6	60.5	56.3
100°	77.7	77.2	76.6	76.1	75.7	74.4	72.3	70.2	68.2	66.1	61.7
102.5°	83.2	82.5	81.8	81.1	80.4	78.7	76.0	73.3	70.6	67.9	104.6
105°	88.1	87.1	86.1	85.0	84.0	82.1	79.2	76.4	73.5	70.8	141.0
107.5°	90.7	89.7	88.6	87.6	86.6	87.5	90.3	93.3	96.1	99.1	183.4
110°	91.6	90.6	89.5	88.5	87.5	99.9	125.6	151.4	177.2	202.9	277.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	92.5	91.7	90.9	90.1	89.2	135.8	229.8	323.8	417.8	511.8	530.2
115°	95.1	113.7	132.2	150.7	169.3	238.2	357.5	476.9	596.1	715.4	709.0
117.5°	388.2	449.1	510.1	571.1	632.1	677.0	705.9	734.7	763.6	792.5	788.0
120°	707.4	742.1	776.9	811.7	846.4	862.3	859.2	856.1	853.0	849.9	845.3
122.5°	882.6	889.4	896.2	902.9	909.6	912.1	910.3	908.4	906.5	904.7	899.6
125°	991.4	990.7	989.9	989.1	988.3	987.0	985.2	983.4	981.6	979.8	974.9
127.5°	1060.1	1059.9	1059.7	1059.6	1059.5	1058.0	1055.4	1052.8	1050.2	1047.6	1043.9
130°	1102.7	1103.0	1103.3	1103.5	1103.8	1102.4	1099.7	1096.8	1094.0	1091.1	1088.3
132.5°	1144.4	1144.8	1145.0	1145.3	1145.5	1144.4	1142.0	1139.5	1137.2	1134.7	1131.9
135°	1204.8	1205.3	1205.8	1206.3	1206.8	1205.8	1203.2	1200.6	1198.1	1195.5	1193.2
137.5°	1259.7	1260.6	1261.5	1262.3	1263.2	1262.4	1259.9	1257.4	1254.8	1252.3	1249.7
140°	1294.0	1295.3	1296.7	1298.0	1299.2	1298.7	1296.4	1294.0	1291.8	1289.4	1286.6
142.5°	1327.5	1328.8	1330.0	1331.3	1332.6	1332.2	1330.1	1328.0	1325.8	1323.7	1320.5
145°	1374.1	1375.3	1376.6	1377.9	1379.2	1379.0	1377.1	1375.3	1373.5	1371.7	1367.3
147.5°	1415.1	1416.2	1417.3	1418.4	1419.4	1419.4	1418.0	1416.7	1415.3	1414.0	1409.7
150°	1440.1	1441.4	1442.8	1444.1	1445.3	1445.2	1443.7	1442.1	1440.6	1439.0	1434.8
152.5°	1461.5	1463.2	1464.9	1466.6	1468.3	1468.4	1466.8	1465.3	1463.7	1462.2	1458.2
155°	1491.2	1493.2	1495.3	1497.4	1499.4	1499.7	1498.1	1496.6	1495.0	1493.5	1490.4
157.5°	1518.3	1520.3	1522.3	1524.4	1526.3	1526.5	1524.7	1523.0	1521.3	1519.5	1517.3
160°	1534.1	1535.9	1537.7	1539.5	1541.3	1541.4	1539.9	1538.3	1536.8	1535.2	1533.7
162.5°	1547.1	1549.3	1551.5	1553.7	1555.9	1556.2	1554.4	1552.7	1550.9	1549.2	1547.8
165°	1566.5	1568.4	1570.2	1572.0	1573.8	1573.8	1572.0	1570.2	1568.4	1566.5	1565.8
167.5°	1578.8	1581.2	1583.5	1585.8	1588.1	1588.4	1586.6	1584.8	1583.0	1581.2	1580.5
170°	1586.2	1588.6	1590.9	1593.3	1595.5	1595.8	1594.0	1592.2	1590.4	1588.6	1588.0
172.5°	1591.8	1594.2	1596.4	1598.8	1601.1	1601.3	1599.5	1597.7	1595.9	1594.2	1593.7
175°	1596.7	1599.3	1601.8	1604.4	1607.0	1607.4	1605.6	1603.8	1602.0	1600.2	1599.7
177.5°	1599.7	1601.6	1603.4	1605.2	1607.1	1607.4	1605.9	1604.4	1603.0	1601.6	1601.3
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	812.9	811.0	809.8	805.4	801.5	797.6	796.4	796.9	791.5	786.4	784.2
5°	844.7	838.5	832.7	824.5	814.8	804.1	798.7	794.4	783.7	772.2	765.5
7.5°	873.0	864.3	853.1	837.7	823.5	806.7	796.1	786.7	771.0	754.7	744.8
10°	890.3	878.4	864.1	845.2	827.9	807.5	793.2	778.9	760.6	741.1	729.0
12.5°	905.1	889.2	875.1	850.8	830.3	804.8	787.8	767.7	748.4	725.3	713.3
15°	940.5	911.0	884.2	856.8	831.5	795.9	777.1	749.9	724.6	696.0	682.3
17.5°	967.8	934.7	892.5	857.7	828.2	788.7	761.0	728.6	698.6	665.9	647.3
20°	983.5	945.4	900.0	858.7	823.3	778.3	748.1	714.9	679.9	643.0	623.0
22.5°	992.7	952.8	907.8	855.0	813.6	769.7	731.8	695.5	659.9	620.2	599.1
25°	995.6	959.1	911.6	851.9	801.4	751.8	706.0	670.7	627.9	590.7	559.9
27.5°	981.1	955.0	909.3	846.2	787.3	729.3	678.4	638.4	593.0	552.8	521.8
30°	963.4	948.1	903.7	840.3	776.1	713.7	657.7	612.3	567.3	526.4	494.8
32.5°	935.9	932.5	893.5	832.1	764.2	694.0	636.0	590.1	540.2	500.1	469.9
35°	881.7	896.4	871.7	813.6	741.7	665.9	603.2	550.8	499.0	460.6	432.4
37.5°	809.3	845.6	839.2	786.4	711.3	635.4	566.1	511.4	462.0	423.3	395.5
40°	759.4	805.7	812.4	765.7	690.0	611.7	538.3	483.8	435.7	400.4	372.3
42.5°	705.8	759.9	778.3	740.9	666.6	586.9	513.5	457.1	409.4	375.0	350.3
45°	616.0	687.5	720.7	699.4	627.5	545.9	470.4	413.2	370.0	337.7	318.5
47.5°	532.0	610.2	654.8	647.3	584.1	503.3	428.7	373.7	331.7	305.9	288.7
50°	472.5	552.9	606.8	609.3	552.9	472.9	397.9	346.2	307.5	283.5	269.5
52.5°	420.9	497.7	556.4	569.3	518.1	441.2	370.4	318.9	284.9	262.8	250.2
55°	353.5	418.3	483.6	507.3	466.2	393.1	327.6	282.3	250.3	235.1	224.1
57.5°	293.9	348.0	408.1	434.4	409.0	346.5	285.1	245.7	219.8	206.4	198.0
60°	262.4	305.1	358.7	390.0	368.1	312.4	258.8	221.4	200.1	188.2	180.3
62.5°	233.3	271.0	316.3	345.0	333.0	280.5	232.5	199.4	181.1	169.9	164.2
65°	192.4	222.3	257.3	283.8	275.9	235.9	196.7	168.4	153.8	145.0	140.4
67.5°	158.4	180.0	204.3	227.5	221.1	192.8	161.3	139.3	128.3	120.7	118.1
70°	137.1	153.4	175.0	193.6	188.5	165.3	140.4	121.5	112.0	105.7	102.9
72.5°	116.6	130.0	146.6	161.8	158.2	139.0	118.2	104.0	96.7	90.8	88.5
75°	88.0	98.3	108.4	118.5	117.6	102.6	90.4	79.5	73.7	69.1	68.2
77.5°	65.0	70.8	77.6	83.6	81.9	73.4	63.8	57.6	53.3	50.2	49.7
80°	49.7	53.0	57.9	62.1	60.0	56.3	48.8	44.2	41.1	38.1	36.9
82.5°	36.0	39.4	42.2	44.6	43.0	39.5	34.8	31.7	29.9	27.8	27.3
85°	18.9	20.7	21.9	22.5	21.9	19.8	17.7	16.5	14.9	14.0	13.7
87.5°	11.1	10.7	10.3	10.3	9.0	8.4	6.8	5.6	6.0	6.3	6.3
90°	19.1	17.0	14.9	12.5	9.7	6.8	4.0	1.1	4.0	6.8	9.7
92.5°	24.9	23.8	22.7	22.4	22.7	22.9	23.2	23.4	23.2	22.9	22.7
95°	41.6	39.8	38.0	41.3	49.9	58.4	66.9	75.3	66.9	58.4	49.9
97.5°	52.2	48.0	43.9	53.7	77.7	101.7	125.6	149.6	125.6	101.7	77.7
100°	57.3	52.9	48.6	64.0	99.3	134.6	169.9	205.2	169.9	134.6	99.3
102.5°	141.2	177.9	214.5	236.6	244.0	251.5	259.0	266.4	259.0	251.5	244.0
105°	211.4	281.8	352.1	383.4	375.7	367.9	360.2	352.5	360.2	367.9	375.7
107.5°	267.7	352.1	436.5	475.6	469.3	463.1	456.8	450.6	456.8	463.1	469.3
110°	351.9	426.3	500.8	535.3	529.9	524.5	519.1	513.7	519.1	524.5	529.9



TEST NUMBER: P331519-930

CATALOG NUMBER: S122DIW-S485D1440U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	548.6	567.0	585.4	592.2	587.4	582.6	577.8	573.1	577.8	582.6	587.4
115°	702.5	696.1	689.7	684.3	679.9	675.5	671.2	666.8	671.2	675.5	679.9
117.5°	783.6	779.1	774.7	770.1	765.2	760.3	755.4	750.5	755.4	760.3	765.2
120°	840.7	836.0	831.4	827.1	823.3	819.4	815.5	811.7	815.5	819.4	823.3
122.5°	894.5	889.5	884.5	880.0	875.9	871.8	867.7	863.6	867.7	871.8	875.9
125°	970.0	965.2	960.3	956.1	952.8	949.4	946.1	942.7	946.1	949.4	952.8
127.5°	1040.2	1036.6	1032.9	1029.2	1025.5	1021.8	1018.1	1014.4	1018.1	1021.8	1025.5
130°	1085.5	1082.6	1079.8	1076.4	1072.2	1068.0	1064.0	1059.8	1064.0	1068.0	1072.2
132.5°	1129.0	1126.3	1123.4	1120.2	1116.7	1113.2	1109.7	1106.2	1109.7	1113.2	1116.7
135°	1190.8	1188.5	1186.2	1183.0	1178.8	1174.8	1170.6	1166.5	1170.6	1174.8	1178.8
137.5°	1247.1	1244.4	1241.8	1239.0	1236.2	1233.3	1230.4	1227.5	1230.4	1233.3	1236.2
140°	1283.8	1280.9	1278.1	1275.6	1273.6	1271.5	1269.4	1267.4	1269.4	1271.5	1273.6
142.5°	1317.3	1314.0	1310.8	1308.2	1306.4	1304.5	1302.6	1300.8	1302.6	1304.5	1306.4
145°	1363.0	1358.6	1354.2	1352.2	1352.4	1352.7	1352.9	1353.2	1352.9	1352.7	1352.4
147.5°	1405.3	1400.9	1396.6	1395.0	1396.0	1396.9	1397.9	1398.9	1397.9	1396.9	1396.0
150°	1430.8	1426.6	1422.5	1421.3	1423.2	1425.0	1426.8	1428.6	1426.8	1425.0	1423.2
152.5°	1454.3	1450.4	1446.5	1445.6	1447.6	1449.6	1451.6	1453.6	1451.6	1449.6	1447.6
155°	1487.4	1484.3	1481.2	1480.7	1483.0	1485.4	1487.7	1490.0	1487.7	1485.4	1483.0
157.5°	1515.2	1513.0	1510.8	1510.7	1512.7	1514.7	1516.6	1518.6	1516.6	1514.7	1512.7
160°	1532.2	1530.6	1529.1	1529.1	1530.6	1532.2	1533.7	1535.2	1533.7	1532.2	1530.6
162.5°	1546.5	1545.2	1543.8	1543.9	1545.5	1547.0	1548.6	1550.0	1548.6	1547.0	1545.5
165°	1565.0	1564.2	1563.5	1563.8	1565.4	1566.9	1568.5	1570.0	1568.5	1566.9	1565.4
167.5°	1579.7	1579.0	1578.3	1578.7	1580.2	1581.8	1583.3	1584.9	1583.3	1581.8	1580.2
170°	1587.6	1587.1	1586.5	1587.1	1588.6	1590.2	1591.7	1593.3	1591.7	1590.2	1588.6
172.5°	1593.1	1592.6	1592.1	1592.6	1594.2	1595.7	1597.3	1598.8	1597.3	1595.7	1594.2
175°	1599.1	1598.6	1598.1	1598.8	1600.6	1602.4	1604.2	1606.0	1604.2	1602.4	1600.6
177.5°	1601.2	1600.9	1600.8	1601.3	1602.8	1604.3	1605.7	1607.1	1605.7	1604.3	1602.8
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



TEST NUMBER: P331519-930

CATALOG NUMBER: S122DIW-S485D1440U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	781.8	780.3	775.2	772.5	768.2	764.0	761.3	762.5	763.5	763.0	762.3
5°	759.4	753.6	744.8	737.1	731.6	721.6	717.4	715.3	713.4	711.3	709.1
7.5°	732.7	723.6	710.9	700.1	689.8	677.4	670.3	665.9	661.5	656.7	652.5
10°	713.7	700.9	687.5	672.3	660.1	648.8	638.8	632.1	626.0	620.2	616.0
12.5°	693.7	679.0	662.4	641.6	628.2	612.0	610.6	598.8	589.2	585.6	580.7
15°	661.9	641.2	620.2	595.6	584.9	570.3	561.2	552.0	543.8	538.0	536.5
17.5°	625.8	599.0	578.1	560.4	543.0	528.0	519.6	512.3	505.5	497.7	496.8
20°	598.3	575.2	552.4	536.8	518.9	503.6	493.3	485.9	480.1	475.6	471.7
22.5°	572.3	546.9	526.0	509.0	491.3	479.0	470.8	463.8	459.0	454.0	450.2
25°	530.4	510.6	487.8	468.6	454.0	446.1	439.4	433.3	430.2	426.9	422.7
27.5°	493.8	471.8	450.5	435.6	422.7	415.7	411.0	406.8	404.0	402.0	399.6
30°	468.0	445.7	429.0	414.4	403.7	396.7	393.7	391.3	387.9	386.7	385.5
32.5°	443.1	423.1	408.8	396.2	386.0	381.4	378.6	376.4	373.8	372.6	370.1
35°	408.0	391.3	377.2	370.2	362.0	358.1	356.0	352.9	350.5	349.3	348.9
37.5°	375.0	360.4	351.1	342.2	338.7	336.2	333.4	331.3	330.5	330.4	330.0
40°	353.5	341.6	333.4	326.1	324.6	320.9	318.5	316.7	316.7	317.0	316.7
42.5°	334.0	323.3	316.1	309.8	308.0	305.8	303.4	303.3	303.8	304.8	303.8
45°	304.5	296.9	291.7	288.6	285.3	283.2	282.8	283.8	284.1	284.4	285.3
47.5°	277.3	272.2	267.6	264.2	262.8	262.4	262.0	263.6	265.1	265.6	267.0
50°	261.2	255.4	251.5	249.4	248.2	247.5	248.2	250.0	251.2	252.7	253.6
52.5°	243.2	239.1	236.4	234.7	234.2	234.6	234.7	236.8	238.8	239.3	239.8
55°	218.3	215.2	214.7	211.9	213.1	212.8	214.3	215.6	217.4	219.2	219.6
57.5°	193.5	191.0	189.4	189.6	190.0	191.4	192.6	194.8	196.7	198.6	198.9
60°	176.9	175.7	174.8	174.8	175.4	177.2	178.7	180.8	182.1	183.3	184.2
62.5°	161.8	160.6	159.6	160.1	161.8	162.8	164.6	165.8	167.0	168.2	168.6
65°	137.9	137.3	138.3	138.8	139.2	140.6	142.8	143.7	145.0	145.5	147.7
67.5°	115.9	116.1	115.9	116.8	118.5	119.0	120.9	123.1	123.4	124.5	125.9
70°	101.1	101.7	102.3	102.9	104.4	105.0	106.6	107.5	108.7	109.6	110.6
72.5°	87.5	87.6	88.2	88.1	89.4	90.7	92.0	92.9	94.1	95.2	96.1
75°	67.3	67.3	67.9	68.2	69.7	71.3	70.9	71.6	72.8	74.0	74.6
77.5°	49.2	48.5	49.2	49.4	49.9	51.2	51.4	52.3	53.7	53.3	54.0
80°	37.4	36.5	37.4	37.7	37.7	39.3	39.3	39.9	40.8	39.9	40.8
82.5°	26.7	26.3	27.0	27.1	27.6	27.6	28.0	28.2	29.1	28.7	29.1
85°	13.4	13.1	13.4	13.1	13.4	13.7	13.7	13.4	13.4	14.0	13.1
87.5°	6.6	6.8	7.1	7.5	7.7	7.8	7.8	8.1	8.3	8.1	8.3
90°	12.5	14.9	17.0	19.1	21.1	23.2	24.5	25.8	27.1	28.4	29.3
92.5°	22.4	22.7	23.8	24.9	25.8	26.9	27.6	28.2	28.9	29.6	30.1
95°	41.3	38.0	39.8	41.6	43.5	45.2	46.5	47.8	49.1	50.4	50.9
97.5°	53.7	43.9	48.0	52.2	56.3	60.5	61.6	62.6	63.6	64.7	65.3
100°	64.0	48.6	52.9	57.3	61.7	66.1	68.2	70.2	72.3	74.4	75.7
102.5°	236.6	214.5	177.9	141.2	104.6	67.9	70.6	73.3	76.0	78.7	80.4
105°	383.4	352.1	281.8	211.4	141.0	70.8	73.5	76.4	79.2	82.1	84.0
107.5°	475.6	436.5	352.1	267.7	183.4	99.1	96.1	93.3	90.3	87.5	86.6
110°	535.3	500.8	426.3	351.9	277.4	202.9	177.2	151.4	125.6	99.9	87.5



TEST NUMBER: P331519-930

CATALOG NUMBER: S122DIW-S485D1440U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	592.2	585.4	567.0	548.6	530.2	511.8	417.8	323.8	229.8	135.8	89.2
115°	684.3	689.7	696.1	702.5	709.0	715.4	596.1	476.9	357.5	238.2	169.3
117.5°	770.1	774.7	779.1	783.6	788.0	792.5	763.6	734.7	705.9	677.0	632.1
120°	827.1	831.4	836.0	840.7	845.3	849.9	853.0	856.1	859.2	862.3	846.4
122.5°	880.0	884.5	889.5	894.5	899.6	904.7	906.5	908.4	910.3	912.1	909.6
125°	956.1	960.3	965.2	970.0	974.9	979.8	981.6	983.4	985.2	987.0	988.3
127.5°	1029.2	1032.9	1036.6	1040.2	1043.9	1047.6	1050.2	1052.8	1055.4	1058.0	1059.5
130°	1076.4	1079.8	1082.6	1085.5	1088.3	1091.1	1094.0	1096.8	1099.7	1102.4	1103.8
132.5°	1120.2	1123.4	1126.3	1129.0	1131.9	1134.7	1137.2	1139.5	1142.0	1144.4	1145.5
135°	1183.0	1186.2	1188.5	1190.8	1193.2	1195.5	1198.1	1200.6	1203.2	1205.8	1206.8
137.5°	1239.0	1241.8	1244.4	1247.1	1249.7	1252.3	1254.8	1257.4	1259.9	1262.4	1263.2
140°	1275.6	1278.1	1280.9	1283.8	1286.6	1289.4	1291.8	1294.0	1296.4	1298.7	1299.2
142.5°	1308.2	1310.8	1314.0	1317.3	1320.5	1323.7	1325.8	1328.0	1330.1	1332.2	1332.6
145°	1352.2	1354.2	1358.6	1363.0	1367.3	1371.7	1373.5	1375.3	1377.1	1379.0	1379.2
147.5°	1395.0	1396.6	1400.9	1405.3	1409.7	1414.0	1415.3	1416.7	1418.0	1419.4	1419.4
150°	1421.3	1422.5	1426.6	1430.8	1434.8	1439.0	1440.6	1442.1	1443.7	1445.2	1445.3
152.5°	1445.6	1446.5	1450.4	1454.3	1458.2	1462.2	1463.7	1465.3	1466.8	1468.4	1468.3
155°	1480.7	1481.2	1484.3	1487.4	1490.4	1493.5	1495.0	1496.6	1498.1	1499.7	1499.4
157.5°	1510.7	1510.8	1513.0	1515.2	1517.3	1519.5	1521.3	1523.0	1524.7	1526.5	1526.3
160°	1529.1	1529.1	1530.6	1532.2	1533.7	1535.2	1536.8	1538.3	1539.9	1541.4	1541.3
162.5°	1543.9	1543.8	1545.2	1546.5	1547.8	1549.2	1550.9	1552.7	1554.4	1556.2	1555.9
165°	1563.8	1563.5	1564.2	1565.0	1565.8	1566.5	1568.4	1570.2	1572.0	1573.8	1573.8
167.5°	1578.7	1578.3	1579.0	1579.7	1580.5	1581.2	1583.0	1584.8	1586.6	1588.4	1588.1
170°	1587.1	1586.5	1587.1	1587.6	1588.0	1588.6	1590.4	1592.2	1594.0	1595.8	1595.5
172.5°	1592.6	1592.1	1592.6	1593.1	1593.7	1594.2	1595.9	1597.7	1599.5	1601.3	1601.1
175°	1598.8	1598.1	1598.6	1599.1	1599.7	1600.2	1602.0	1603.8	1605.6	1607.4	1607.0
177.5°	1601.3	1600.8	1600.9	1601.2	1601.3	1601.6	1603.0	1604.4	1605.9	1607.4	1607.1
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



TEST NUMBER: P331519-930

CATALOG NUMBER: S122DIW-S485D1440U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	759.9	759.4	759.4	757.2	759.4	759.4	759.9	762.3	763.0	763.5	762.5
5°	704.9	703.9	702.5	703.9	702.5	703.9	704.9	709.1	711.3	713.4	715.3
7.5°	650.5	646.9	646.3	642.7	646.3	646.9	650.5	652.5	656.7	661.5	665.9
10°	610.8	608.4	608.1	602.3	608.1	608.4	610.8	616.0	620.2	626.0	632.1
12.5°	580.6	574.7	575.9	572.6	575.9	574.7	580.6	580.7	585.6	589.2	598.8
15°	528.2	528.2	527.1	521.9	527.1	528.2	528.2	536.5	538.0	543.8	552.0
17.5°	490.7	490.1	487.1	488.6	487.1	490.1	490.7	496.8	497.7	505.5	512.3
20°	468.3	466.4	462.8	462.8	462.8	466.4	468.3	471.7	475.6	480.1	485.9
22.5°	447.1	446.9	443.1	444.3	443.1	446.9	447.1	450.2	454.0	459.0	463.8
25°	422.3	419.9	418.1	419.0	418.1	419.9	422.3	422.7	426.9	430.2	433.3
27.5°	398.8	397.5	397.4	394.8	397.4	397.5	398.8	399.6	402.0	404.0	406.8
30°	385.1	382.1	382.7	381.2	382.7	382.1	385.1	385.5	386.7	387.9	391.3
32.5°	369.6	368.5	367.9	366.6	367.9	368.5	369.6	370.1	372.6	373.8	376.4
35°	348.3	348.6	347.1	347.7	347.1	348.6	348.3	348.9	349.3	350.5	352.9
37.5°	329.8	330.8	330.0	330.2	330.0	330.8	329.8	330.0	330.4	330.5	331.3
40°	317.6	317.6	317.6	318.5	317.6	317.6	317.6	316.7	317.0	316.7	316.7
42.5°	305.9	305.4	304.9	304.8	304.9	305.4	305.9	303.8	304.8	303.8	303.3
45°	285.9	286.8	287.1	285.6	287.1	286.8	285.9	285.3	284.4	284.1	283.8
47.5°	267.8	267.9	267.8	269.1	267.8	267.9	267.8	267.0	265.6	265.1	263.6
50°	255.2	254.5	255.2	254.5	255.2	254.5	255.2	253.6	252.7	251.2	250.0
52.5°	241.7	241.9	241.5	241.4	241.5	241.9	241.7	239.8	239.3	238.8	236.8
55°	220.8	221.4	221.0	221.0	221.0	221.4	220.8	219.6	219.2	217.4	215.6
57.5°	199.0	199.6	200.0	198.6	200.0	199.6	199.0	198.9	198.6	196.7	194.8
60°	183.9	185.4	185.2	184.5	185.2	185.4	183.9	184.2	183.3	182.1	180.8
62.5°	170.0	170.6	170.5	170.4	170.5	170.6	170.0	168.6	168.2	167.0	165.8
65°	148.5	149.2	148.3	149.2	148.3	149.2	148.5	147.7	145.5	145.0	143.7
67.5°	125.5	125.7	126.4	126.8	126.4	125.7	125.5	125.9	124.5	123.4	123.1
70°	111.1	110.8	111.8	112.7	111.8	110.8	111.1	110.6	109.6	108.7	107.5
72.5°	96.0	96.7	96.4	97.1	96.4	96.7	96.0	96.1	95.2	94.1	92.9
75°	74.0	74.9	74.6	75.5	74.6	74.9	74.0	74.6	74.0	72.8	71.6
77.5°	53.5	53.6	53.5	54.0	53.5	53.6	53.5	54.0	53.3	53.7	52.3
80°	40.8	40.2	39.5	40.8	39.5	40.2	40.8	40.8	39.9	40.8	39.9
82.5°	28.4	28.8	28.1	28.1	28.1	28.8	28.4	29.1	28.7	29.1	28.2
85°	13.1	12.8	12.1	12.1	12.1	12.8	13.1	13.1	14.0	13.4	13.4
87.5°	8.4	8.2	8.3	8.2	8.3	8.2	8.4	8.3	8.1	8.3	8.1
90°	29.8	30.2	30.8	31.3	30.8	30.2	29.8	29.3	28.4	27.1	25.8
92.5°	30.4	30.7	31.0	31.3	31.0	30.7	30.4	30.1	29.6	28.9	28.2
95°	50.6	50.4	50.1	49.9	50.1	50.4	50.6	50.9	50.4	49.1	47.8
97.5°	65.6	66.0	66.3	66.5	66.3	66.0	65.6	65.3	64.7	63.6	62.6
100°	76.1	76.6	77.2	77.7	77.2	76.6	76.1	75.7	74.4	72.3	70.2
102.5°	81.1	81.8	82.5	83.2	82.5	81.8	81.1	80.4	78.7	76.0	73.3
105°	85.0	86.1	87.1	88.1	87.1	86.1	85.0	84.0	82.1	79.2	76.4
107.5°	87.6	88.6	89.7	90.7	89.7	88.6	87.6	86.6	87.5	90.3	93.3
110°	88.5	89.5	90.6	91.6	90.6	89.5	88.5	87.5	99.9	125.6	151.4



TEST NUMBER: P331519-930

CATALOG NUMBER: S122DIW-S485D1440U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	90.1	90.9	91.7	92.5	91.7	90.9	90.1	89.2	135.8	229.8	323.8
115°	150.7	132.2	113.7	95.1	113.7	132.2	150.7	169.3	238.2	357.5	476.9
117.5°	571.1	510.1	449.1	388.2	449.1	510.1	571.1	632.1	677.0	705.9	734.7
120°	811.7	776.9	742.1	707.4	742.1	776.9	811.7	846.4	862.3	859.2	856.1
122.5°	902.9	896.2	889.4	882.6	889.4	896.2	902.9	909.6	912.1	910.3	908.4
125°	989.1	989.9	990.7	991.4	990.7	989.9	989.1	988.3	987.0	985.2	983.4
127.5°	1059.6	1059.7	1059.9	1060.1	1059.9	1059.7	1059.6	1059.5	1058.0	1055.4	1052.8
130°	1103.5	1103.3	1103.0	1102.7	1103.0	1103.3	1103.5	1103.8	1102.4	1099.7	1096.8
132.5°	1145.3	1145.0	1144.8	1144.4	1144.8	1145.0	1145.3	1145.5	1144.4	1142.0	1139.5
135°	1206.3	1205.8	1205.3	1204.8	1205.3	1205.8	1206.3	1206.8	1205.8	1203.2	1200.6
137.5°	1262.3	1261.5	1260.6	1259.7	1260.6	1261.5	1262.3	1263.2	1262.4	1259.9	1257.4
140°	1298.0	1296.7	1295.3	1294.0	1295.3	1296.7	1298.0	1299.2	1298.7	1296.4	1294.0
142.5°	1331.3	1330.0	1328.8	1327.5	1328.8	1330.0	1331.3	1332.6	1332.2	1330.1	1328.0
145°	1377.9	1376.6	1375.3	1374.1	1375.3	1376.6	1377.9	1379.2	1379.0	1377.1	1375.3
147.5°	1418.4	1417.3	1416.2	1415.1	1416.2	1417.3	1418.4	1419.4	1419.4	1418.0	1416.7
150°	1444.1	1442.8	1441.4	1440.1	1441.4	1442.8	1444.1	1445.3	1445.2	1443.7	1442.1
152.5°	1466.6	1464.9	1463.2	1461.5	1463.2	1464.9	1466.6	1468.3	1468.4	1466.8	1465.3
155°	1497.4	1495.3	1493.2	1491.2	1493.2	1495.3	1497.4	1499.4	1499.7	1498.1	1496.6
157.5°	1524.4	1522.3	1520.3	1518.3	1520.3	1522.3	1524.4	1526.3	1526.5	1524.7	1523.0
160°	1539.5	1537.7	1535.9	1534.1	1535.9	1537.7	1539.5	1541.3	1541.4	1539.9	1538.3
162.5°	1553.7	1551.5	1549.3	1547.1	1549.3	1551.5	1553.7	1555.9	1556.2	1554.4	1552.7
165°	1572.0	1570.2	1568.4	1566.5	1568.4	1570.2	1572.0	1573.8	1573.8	1572.0	1570.2
167.5°	1585.8	1583.5	1581.2	1578.8	1581.2	1583.5	1585.8	1588.1	1588.4	1586.6	1584.8
170°	1593.3	1590.9	1588.6	1586.2	1588.6	1590.9	1593.3	1595.5	1595.8	1594.0	1592.2
172.5°	1598.8	1596.4	1594.2	1591.8	1594.2	1596.4	1598.8	1601.1	1601.3	1599.5	1597.7
175°	1604.4	1601.8	1599.3	1596.7	1599.3	1601.8	1604.4	1607.0	1607.4	1605.6	1603.8
177.5°	1605.2	1603.4	1601.6	1599.7	1601.6	1603.4	1605.2	1607.1	1607.4	1605.9	1604.4
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



TEST NUMBER: P331519-930

CATALOG NUMBER: S122DIW-S485D1440U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	761.3	764.0	768.2	772.5	775.2	780.3	781.8	784.2	786.4	791.5	796.9
5°	717.4	721.6	731.6	737.1	744.8	753.6	759.4	765.5	772.2	783.7	794.4
7.5°	670.3	677.4	689.8	700.1	710.9	723.6	732.7	744.8	754.7	771.0	786.7
10°	638.8	648.8	660.1	672.3	687.5	700.9	713.7	729.0	741.1	760.6	778.9
12.5°	610.6	612.0	628.2	641.6	662.4	679.0	693.7	713.3	725.3	748.4	767.7
15°	561.2	570.3	584.9	595.6	620.2	641.2	661.9	682.3	696.0	724.6	749.9
17.5°	519.6	528.0	543.0	560.4	578.1	599.0	625.8	647.3	665.9	698.6	728.6
20°	493.3	503.6	518.9	536.8	552.4	575.2	598.3	623.0	643.0	679.9	714.9
22.5°	470.8	479.0	491.3	509.0	526.0	546.9	572.3	599.1	620.2	659.9	695.5
25°	439.4	446.1	454.0	468.6	487.8	510.6	530.4	559.9	590.7	627.9	670.7
27.5°	411.0	415.7	422.7	435.6	450.5	471.8	493.8	521.8	552.8	593.0	638.4
30°	393.7	396.7	403.7	414.4	429.0	445.7	468.0	494.8	526.4	567.3	612.3
32.5°	378.6	381.4	386.0	396.2	408.8	423.1	443.1	469.9	500.1	540.2	590.1
35°	356.0	358.1	362.0	370.2	377.2	391.3	408.0	432.4	460.6	499.0	550.8
37.5°	333.4	336.2	338.7	342.2	351.1	360.4	375.0	395.5	423.3	462.0	511.4
40°	318.5	320.9	324.6	326.1	333.4	341.6	353.5	372.3	400.4	435.7	483.8
42.5°	303.4	305.8	308.0	309.8	316.1	323.3	334.0	350.3	375.0	409.4	457.1
45°	282.8	283.2	285.3	288.6	291.7	296.9	304.5	318.5	337.7	370.0	413.2
47.5°	262.0	262.4	262.8	264.2	267.6	272.2	277.3	288.7	305.9	331.7	373.7
50°	248.2	247.5	248.2	249.4	251.5	255.4	261.2	269.5	283.5	307.5	346.2
52.5°	234.7	234.6	234.2	234.7	236.4	239.1	243.2	250.2	262.8	284.9	318.9
55°	214.3	212.8	213.1	211.9	214.7	215.2	218.3	224.1	235.1	250.3	282.3
57.5°	192.6	191.4	190.0	189.6	189.4	191.0	193.5	198.0	206.4	219.8	245.7
60°	178.7	177.2	175.4	174.8	174.8	175.7	176.9	180.3	188.2	200.1	221.4
62.5°	164.6	162.8	161.8	160.1	159.6	160.6	161.8	164.2	169.9	181.1	199.4
65°	142.8	140.6	139.2	138.8	138.3	137.3	137.9	140.4	145.0	153.8	168.4
67.5°	120.9	119.0	118.5	116.8	115.9	116.1	115.9	118.1	120.7	128.3	139.3
70°	106.6	105.0	104.4	102.9	102.3	101.7	101.1	102.9	105.7	112.0	121.5
72.5°	92.0	90.7	89.4	88.1	88.2	87.6	87.5	88.5	90.8	96.7	104.0
75°	70.9	71.3	69.7	68.2	67.9	67.3	67.3	68.2	69.1	73.7	79.5
77.5°	51.4	51.2	49.9	49.4	49.2	48.5	49.2	49.7	50.2	53.3	57.6
80°	39.3	39.3	37.7	37.7	37.4	36.5	37.4	36.9	38.1	41.1	44.2
82.5°	28.0	27.6	27.6	27.1	27.0	26.3	26.7	27.3	27.8	29.9	31.7
85°	13.7	13.7	13.4	13.1	13.4	13.1	13.4	13.7	14.0	14.9	16.5
87.5°	7.8	7.8	7.7	7.5	7.1	6.8	6.6	6.3	6.3	6.0	5.6
90°	24.5	23.2	21.1	19.1	17.0	14.9	12.5	9.7	6.8	4.0	1.1
92.5°	27.6	26.9	25.8	24.9	23.8	22.7	22.4	22.7	22.9	23.2	23.4
95°	46.5	45.2	43.5	41.6	39.8	38.0	41.3	49.9	58.4	66.9	75.3
97.5°	61.6	60.5	56.3	52.2	48.0	43.9	53.7	77.7	101.7	125.6	149.6
100°	68.2	66.1	61.7	57.3	52.9	48.6	64.0	99.3	134.6	169.9	205.2
102.5°	70.6	67.9	104.6	141.2	177.9	214.5	236.6	244.0	251.5	259.0	266.4
105°	73.5	70.8	141.0	211.4	281.8	352.1	383.4	375.7	367.9	360.2	352.5
107.5°	96.1	99.1	183.4	267.7	352.1	436.5	475.6	469.3	463.1	456.8	450.6
110°	177.2	202.9	277.4	351.9	426.3	500.8	535.3	529.9	524.5	519.1	513.7



TEST NUMBER: P331519-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	417.8	511.8	530.2	548.6	567.0	585.4	592.2	587.4	582.6	577.8	573.1
115°	596.1	715.4	709.0	702.5	696.1	689.7	684.3	679.9	675.5	671.2	666.8
117.5°	763.6	792.5	788.0	783.6	779.1	774.7	770.1	765.2	760.3	755.4	750.5
120°	853.0	849.9	845.3	840.7	836.0	831.4	827.1	823.3	819.4	815.5	811.7
122.5°	906.5	904.7	899.6	894.5	889.5	884.5	880.0	875.9	871.8	867.7	863.6
125°	981.6	979.8	974.9	970.0	965.2	960.3	956.1	952.8	949.4	946.1	942.7
127.5°	1050.2	1047.6	1043.9	1040.2	1036.6	1032.9	1029.2	1025.5	1021.8	1018.1	1014.4
130°	1094.0	1091.1	1088.3	1085.5	1082.6	1079.8	1076.4	1072.2	1068.0	1064.0	1059.8
132.5°	1137.2	1134.7	1131.9	1129.0	1126.3	1123.4	1120.2	1116.7	1113.2	1109.7	1106.2
135°	1198.1	1195.5	1193.2	1190.8	1188.5	1186.2	1183.0	1178.8	1174.8	1170.6	1166.5
137.5°	1254.8	1252.3	1249.7	1247.1	1244.4	1241.8	1239.0	1236.2	1233.3	1230.4	1227.5
140°	1291.8	1289.4	1286.6	1283.8	1280.9	1278.1	1275.6	1273.6	1271.5	1269.4	1267.4
142.5°	1325.8	1323.7	1320.5	1317.3	1314.0	1310.8	1308.2	1306.4	1304.5	1302.6	1300.8
145°	1373.5	1371.7	1367.3	1363.0	1358.6	1354.2	1352.2	1352.4	1352.7	1352.9	1353.2
147.5°	1415.3	1414.0	1409.7	1405.3	1400.9	1396.6	1395.0	1396.0	1396.9	1397.9	1398.9
150°	1440.6	1439.0	1434.8	1430.8	1426.6	1422.5	1421.3	1423.2	1425.0	1426.8	1428.6
152.5°	1463.7	1462.2	1458.2	1454.3	1450.4	1446.5	1445.6	1447.6	1449.6	1451.6	1453.6
155°	1495.0	1493.5	1490.4	1487.4	1484.3	1481.2	1480.7	1483.0	1485.4	1487.7	1490.0
157.5°	1521.3	1519.5	1517.3	1515.2	1513.0	1510.8	1510.7	1512.7	1514.7	1516.6	1518.6
160°	1536.8	1535.2	1533.7	1532.2	1530.6	1529.1	1529.1	1530.6	1532.2	1533.7	1535.2
162.5°	1550.9	1549.2	1547.8	1546.5	1545.2	1543.8	1543.9	1545.5	1547.0	1548.6	1550.0
165°	1568.4	1566.5	1565.8	1565.0	1564.2	1563.5	1563.8	1565.4	1566.9	1568.5	1570.0
167.5°	1583.0	1581.2	1580.5	1579.7	1579.0	1578.3	1578.7	1580.2	1581.8	1583.3	1584.9
170°	1590.4	1588.6	1588.0	1587.6	1587.1	1586.5	1587.1	1588.6	1590.2	1591.7	1593.3
172.5°	1595.9	1594.2	1593.7	1593.1	1592.6	1592.1	1592.6	1594.2	1595.7	1597.3	1598.8
175°	1602.0	1600.2	1599.7	1599.1	1598.6	1598.1	1598.8	1600.6	1602.4	1604.2	1606.0
177.5°	1603.0	1601.6	1601.3	1601.2	1600.9	1600.8	1601.3	1602.8	1604.3	1605.7	1607.1
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	796.4	797.6	801.5	805.4	809.8	811.0	812.9	811.2	810.7	815.4	818.8
5°	798.7	804.1	814.8	824.5	832.7	838.5	844.7	847.1	851.7	858.0	865.9
7.5°	796.1	806.7	823.5	837.7	853.1	864.3	873.0	880.4	889.4	901.6	914.8
10°	793.2	807.5	827.9	845.2	864.1	878.4	890.3	901.9	915.3	932.1	949.3
12.5°	787.8	804.8	830.3	850.8	875.1	889.2	905.1	930.1	944.5	967.8	992.2
15°	777.1	795.9	831.5	856.8	884.2	911.0	940.5	964.3	988.1	1001.8	1036.2
17.5°	761.0	788.7	828.2	857.7	892.5	934.7	967.8	994.8	1022.2	1044.4	1061.7
20°	748.1	778.3	823.3	858.7	900.0	945.4	983.5	1010.9	1034.6	1053.2	1063.9
22.5°	731.8	769.7	813.6	855.0	907.8	952.8	992.7	1014.3	1034.1	1043.2	1047.3
25°	706.0	751.8	801.4	851.9	911.6	959.1	995.6	1008.8	1014.6	1005.7	991.1
27.5°	678.4	729.3	787.3	846.2	909.3	955.0	981.1	979.1	969.3	940.7	917.9
30°	657.7	713.7	776.1	840.3	903.7	948.1	963.4	948.1	925.9	894.0	861.4
32.5°	636.0	694.0	764.2	832.1	893.5	932.5	935.9	909.6	875.2	838.9	798.3
35°	603.2	665.9	741.7	813.6	871.7	896.4	881.7	835.5	794.7	745.1	689.7
37.5°	566.1	635.4	711.3	786.4	839.2	845.6	809.3	760.6	703.0	644.7	579.5
40°	538.3	611.7	690.0	765.7	812.4	805.7	759.4	705.8	637.2	566.1	505.4
42.5°	513.5	586.9	666.6	740.9	778.3	759.9	705.8	640.0	566.4	499.3	443.8
45°	470.4	545.9	627.5	699.4	720.7	687.5	616.0	542.9	470.4	414.4	370.6
47.5°	428.7	503.3	584.1	647.3	654.8	610.2	532.0	456.8	394.5	348.9	318.0
50°	397.9	472.9	552.9	609.3	606.8	552.9	472.5	401.0	348.9	312.1	291.4
52.5°	370.4	441.2	518.1	569.3	556.4	497.7	420.9	357.4	314.6	285.8	267.0
55°	327.6	393.1	466.2	507.3	483.6	418.3	353.5	302.3	270.7	249.1	234.5
57.5°	285.1	346.5	409.0	434.4	408.1	348.0	293.9	256.8	233.0	217.0	207.5
60°	258.8	312.4	368.1	390.0	358.7	305.1	262.4	229.3	210.1	197.0	188.5
62.5°	232.5	280.5	333.0	345.0	316.3	271.0	233.3	205.6	189.9	178.2	170.2
65°	196.7	235.9	275.9	283.8	257.3	222.3	192.4	174.5	160.5	152.0	145.5
67.5°	161.3	192.8	221.1	227.5	204.3	180.0	158.4	142.8	133.3	126.2	120.8
70°	140.4	165.3	188.5	193.6	175.0	153.4	137.1	124.5	116.0	109.9	104.8
72.5°	118.2	139.0	158.2	161.8	146.6	130.0	116.6	106.7	99.2	95.3	90.3
75°	90.4	102.6	117.6	118.5	108.4	98.3	88.0	81.6	77.6	72.8	70.4
77.5°	63.8	73.4	81.9	83.6	77.6	70.8	65.0	59.9	56.6	54.3	52.1
80°	48.8	56.3	60.0	62.1	57.9	53.0	49.7	46.3	44.2	42.6	41.1
82.5°	34.8	39.5	43.0	44.6	42.2	39.4	36.0	34.1	32.4	31.1	30.7
85°	17.7	19.8	21.9	22.5	21.9	20.7	18.9	18.9	17.9	17.7	17.7
87.5°	6.8	8.4	9.0	10.3	10.3	10.7	11.1	11.3	11.5	11.5	11.5
90°	4.0	6.8	9.7	12.5	14.9	17.0	19.1	21.1	23.2	24.5	25.8
92.5°	23.2	22.9	22.7	22.4	22.7	23.8	24.9	25.8	26.9	27.6	28.2
95°	66.9	58.4	49.9	41.3	38.0	39.8	41.6	43.5	45.2	46.5	47.8
97.5°	125.6	101.7	77.7	53.7	43.9	48.0	52.2	56.3	60.5	61.6	62.6
100°	169.9	134.6	99.3	64.0	48.6	52.9	57.3	61.7	66.1	68.2	70.2
102.5°	259.0	251.5	244.0	236.6	214.5	177.9	141.2	104.6	67.9	70.6	73.3
105°	360.2	367.9	375.7	383.4	352.1	281.8	211.4	141.0	70.8	73.5	76.4
107.5°	456.8	463.1	469.3	475.6	436.5	352.1	267.7	183.4	99.1	96.1	93.3
110°	519.1	524.5	529.9	535.3	500.8	426.3	351.9	277.4	202.9	177.2	151.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	577.8	582.6	587.4	592.2	585.4	567.0	548.6	530.2	511.8	417.8	323.8
115°	671.2	675.5	679.9	684.3	689.7	696.1	702.5	709.0	715.4	596.1	476.9
117.5°	755.4	760.3	765.2	770.1	774.7	779.1	783.6	788.0	792.5	763.6	734.7
120°	815.5	819.4	823.3	827.1	831.4	836.0	840.7	845.3	849.9	853.0	856.1
122.5°	867.7	871.8	875.9	880.0	884.5	889.5	894.5	899.6	904.7	906.5	908.4
125°	946.1	949.4	952.8	956.1	960.3	965.2	970.0	974.9	979.8	981.6	983.4
127.5°	1018.1	1021.8	1025.5	1029.2	1032.9	1036.6	1040.2	1043.9	1047.6	1050.2	1052.8
130°	1064.0	1068.0	1072.2	1076.4	1079.8	1082.6	1085.5	1088.3	1091.1	1094.0	1096.8
132.5°	1109.7	1113.2	1116.7	1120.2	1123.4	1126.3	1129.0	1131.9	1134.7	1137.2	1139.5
135°	1170.6	1174.8	1178.8	1183.0	1186.2	1188.5	1190.8	1193.2	1195.5	1198.1	1200.6
137.5°	1230.4	1233.3	1236.2	1239.0	1241.8	1244.4	1247.1	1249.7	1252.3	1254.8	1257.4
140°	1269.4	1271.5	1273.6	1275.6	1278.1	1280.9	1283.8	1286.6	1289.4	1291.8	1294.0
142.5°	1302.6	1304.5	1306.4	1308.2	1310.8	1314.0	1317.3	1320.5	1323.7	1325.8	1328.0
145°	1352.9	1352.7	1352.4	1352.2	1354.2	1358.6	1363.0	1367.3	1371.7	1373.5	1375.3
147.5°	1397.9	1396.9	1396.0	1395.0	1396.6	1400.9	1405.3	1409.7	1414.0	1415.3	1416.7
150°	1426.8	1425.0	1423.2	1421.3	1422.5	1426.6	1430.8	1434.8	1439.0	1440.6	1442.1
152.5°	1451.6	1449.6	1447.6	1445.6	1446.5	1450.4	1454.3	1458.2	1462.2	1463.7	1465.3
155°	1487.7	1485.4	1483.0	1480.7	1481.2	1484.3	1487.4	1490.4	1493.5	1495.0	1496.6
157.5°	1516.6	1514.7	1512.7	1510.7	1510.8	1513.0	1515.2	1517.3	1519.5	1521.3	1523.0
160°	1533.7	1532.2	1530.6	1529.1	1529.1	1530.6	1532.2	1533.7	1535.2	1536.8	1538.3
162.5°	1548.6	1547.0	1545.5	1543.9	1543.8	1545.2	1546.5	1547.8	1549.2	1550.9	1552.7
165°	1568.5	1566.9	1565.4	1563.8	1563.5	1564.2	1565.0	1565.8	1566.5	1568.4	1570.2
167.5°	1583.3	1581.8	1580.2	1578.7	1578.3	1579.0	1579.7	1580.5	1581.2	1583.0	1584.8
170°	1591.7	1590.2	1588.6	1587.1	1586.5	1587.1	1587.6	1588.0	1588.6	1590.4	1592.2
172.5°	1597.3	1595.7	1594.2	1592.6	1592.1	1592.6	1593.1	1593.7	1594.2	1595.9	1597.7
175°	1604.2	1602.4	1600.6	1598.8	1598.1	1598.6	1599.1	1599.7	1600.2	1602.0	1603.8
177.5°	1605.7	1604.3	1602.8	1601.3	1600.8	1600.9	1601.2	1601.3	1601.6	1603.0	1604.4
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	821.7	825.2	825.2	825.7	829.5	829.1	828.8
5°	874.5	879.6	880.3	885.7	889.4	888.2	884.8
7.5°	924.2	933.8	941.2	945.3	950.1	953.0	951.7
10°	963.7	977.7	986.2	992.0	999.0	1004.2	1002.3
12.5°	999.5	1016.2	1027.8	1037.8	1038.7	1045.4	1040.8
15°	1055.3	1073.0	1074.8	1082.1	1087.9	1087.3	1087.6
17.5°	1073.7	1079.5	1080.6	1080.8	1080.8	1078.7	1074.1
20°	1067.2	1065.1	1059.9	1056.0	1049.0	1048.0	1042.0
22.5°	1036.0	1029.2	1016.3	1007.7	996.8	993.9	992.2
25°	974.6	959.7	939.0	919.2	913.7	903.1	906.1
27.5°	890.4	867.2	844.7	828.7	814.2	798.2	802.7
30°	831.2	805.0	773.4	749.0	733.5	718.3	715.5
32.5°	760.6	722.2	686.9	665.4	641.6	632.0	621.5
35°	638.8	601.4	566.3	536.2	518.9	505.4	493.3
37.5°	529.2	486.2	457.9	433.5	420.9	413.3	415.2
40°	461.3	423.5	402.8	384.3	372.7	367.2	368.4
42.5°	406.3	378.0	360.9	348.2	340.1	337.0	336.2
45°	343.7	327.9	313.9	306.6	302.6	299.3	297.2
47.5°	301.2	288.2	280.3	276.0	272.5	269.1	269.0
50°	275.6	267.0	261.5	257.0	254.2	251.8	254.0
52.5°	256.1	248.3	242.8	238.7	237.7	235.5	235.5
55°	227.1	221.0	217.1	213.4	211.7	210.4	208.9
57.5°	200.8	195.0	191.4	189.1	185.6	184.4	183.9
60°	182.1	177.5	173.8	170.8	169.3	166.9	166.9
62.5°	164.8	160.2	156.8	154.5	152.0	151.0	151.2
65°	139.7	136.1	132.7	130.3	129.7	127.9	128.5
67.5°	116.8	114.3	110.8	109.4	108.3	107.3	106.6
70°	101.4	99.0	97.1	95.3	94.4	94.4	94.4
72.5°	88.5	85.5	84.5	82.2	82.7	81.7	80.7
75°	68.5	66.7	65.8	64.8	63.3	63.3	63.3
77.5°	50.4	49.9	48.8	47.8	47.5	47.1	47.3
80°	39.0	38.6	38.1	38.1	37.4	37.2	36.5
82.5°	29.9	29.2	28.8	28.5	28.5	28.4	28.3
85°	17.0	16.5	16.5	16.7	16.1	16.1	16.5
87.5°	12.0	12.2	12.1	12.3	12.6	12.5	12.6
90°	27.1	28.4	29.3	29.8	30.2	30.8	31.3
92.5°	28.9	29.6	30.1	30.4	30.7	31.0	31.3
95°	49.1	50.4	50.9	50.6	50.4	50.1	49.9
97.5°	63.6	64.7	65.3	65.6	66.0	66.3	66.5
100°	72.3	74.4	75.7	76.1	76.6	77.2	77.7
102.5°	76.0	78.7	80.4	81.1	81.8	82.5	83.2
105°	79.2	82.1	84.0	85.0	86.1	87.1	88.1
107.5°	90.3	87.5	86.6	87.6	88.6	89.7	90.7
110°	125.6	99.9	87.5	88.5	89.5	90.6	91.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	229.8	135.8	89.2	90.1	90.9	91.7	92.5
115°	357.5	238.2	169.3	150.7	132.2	113.7	95.1
117.5°	705.9	677.0	632.1	571.1	510.1	449.1	388.2
120°	859.2	862.3	846.4	811.7	776.9	742.1	707.4
122.5°	910.3	912.1	909.6	902.9	896.2	889.4	882.6
125°	985.2	987.0	988.3	989.1	989.9	990.7	991.4
127.5°	1055.4	1058.0	1059.5	1059.6	1059.7	1059.9	1060.1
130°	1099.7	1102.4	1103.8	1103.5	1103.3	1103.0	1102.7
132.5°	1142.0	1144.4	1145.5	1145.3	1145.0	1144.8	1144.4
135°	1203.2	1205.8	1206.8	1206.3	1205.8	1205.3	1204.8
137.5°	1259.9	1262.4	1263.2	1262.3	1261.5	1260.6	1259.7
140°	1296.4	1298.7	1299.2	1298.0	1296.7	1295.3	1294.0
142.5°	1330.1	1332.2	1332.6	1331.3	1330.0	1328.8	1327.5
145°	1377.1	1379.0	1379.2	1377.9	1376.6	1375.3	1374.1
147.5°	1418.0	1419.4	1419.4	1418.4	1417.3	1416.2	1415.1
150°	1443.7	1445.2	1445.3	1444.1	1442.8	1441.4	1440.1
152.5°	1466.8	1468.4	1468.3	1466.6	1464.9	1463.2	1461.5
155°	1498.1	1499.7	1499.4	1497.4	1495.3	1493.2	1491.2
157.5°	1524.7	1526.5	1526.3	1524.4	1522.3	1520.3	1518.3
160°	1539.9	1541.4	1541.3	1539.5	1537.7	1535.9	1534.1
162.5°	1554.4	1556.2	1555.9	1553.7	1551.5	1549.3	1547.1
165°	1572.0	1573.8	1573.8	1572.0	1570.2	1568.4	1566.5
167.5°	1586.6	1588.4	1588.1	1585.8	1583.5	1581.2	1578.8
170°	1594.0	1595.8	1595.5	1593.3	1590.9	1588.6	1586.2
172.5°	1599.5	1601.3	1601.1	1598.8	1596.4	1594.2	1591.8
175°	1605.6	1607.4	1607.0	1604.4	1601.8	1599.3	1596.7
177.5°	1605.9	1607.4	1607.1	1605.2	1603.4	1601.6	1599.7
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5

(END OF REPORT)