

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: P332108

Luminaire Tested: **S123DIW-S340D1320U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332108  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S340D1320U835-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1320 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6734.0 lumens  
Efficiency: N/A  
Efficacy: 144.5 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

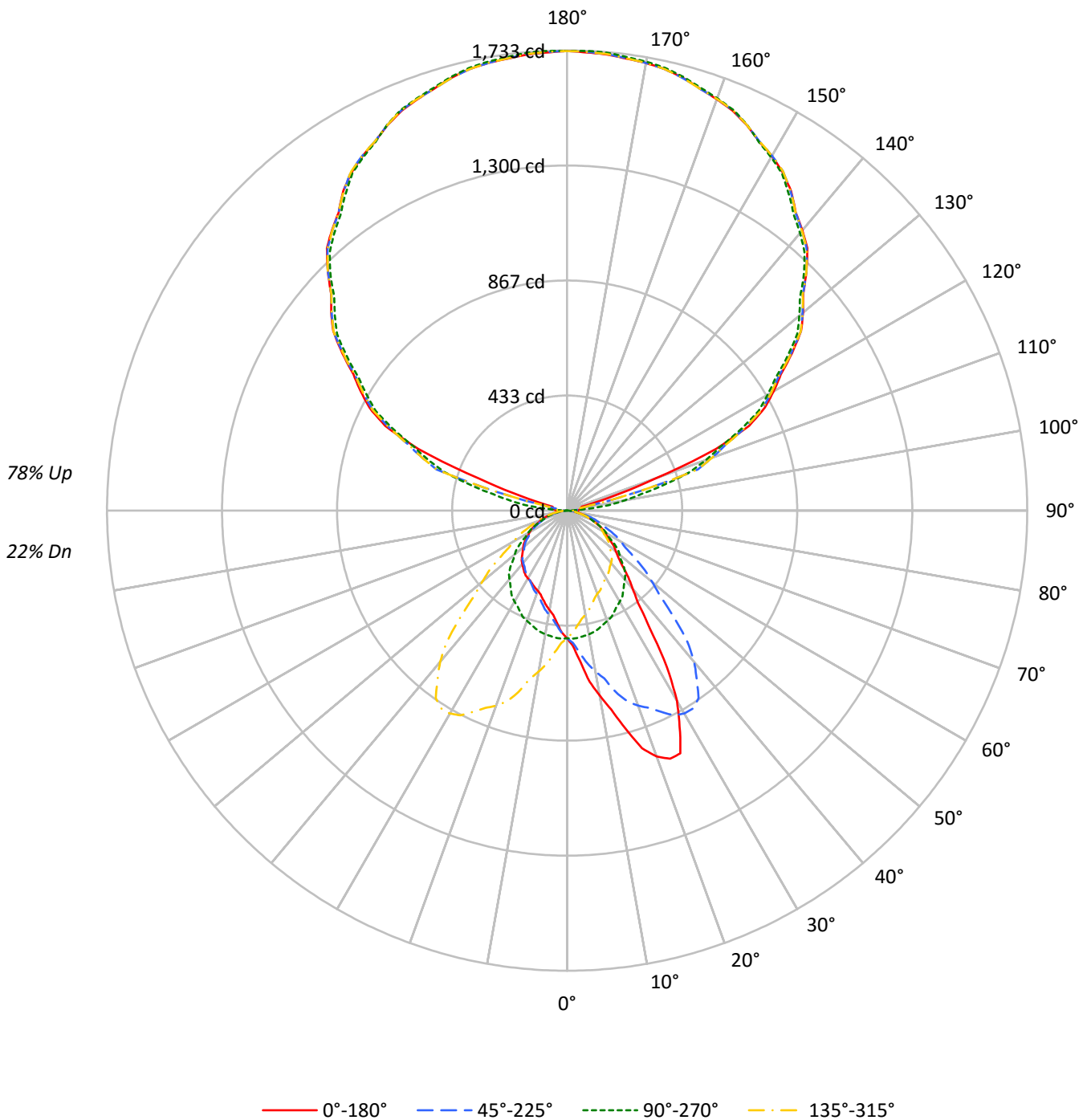
Input Watts (W): 46.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22				
1	92	87	84	80	81	78	75	72	59	57	55	42	41	40	27	26	26	18				
2	83	76	71	66	74	68	63	59	52	49	46	37	35	34	24	23	22	16				
3	76	67	60	55	67	60	54	49	46	42	39	33	30	28	21	20	18	13				
4	70	59	52	46	61	53	47	42	41	36	33	29	27	24	19	17	16	12				
5	64	53	45	39	56	47	41	36	36	32	28	26	23	21	17	15	14	10				
6	59	47	39	34	52	42	36	31	33	28	24	24	21	18	15	14	12	9				
7	54	42	35	30	48	38	31	27	29	25	21	21	18	16	14	12	11	8				
8	50	38	31	26	44	34	28	24	27	22	19	20	16	14	13	11	10	7				
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6				
10	43	32	25	20	38	28	23	18	22	18	15	16	13	11	11	9	8	6				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5175	5175	5175	5175
5°	6172	5198	4606	5198
10°	7725	5172	4161	5172
15°	9475	5129	3874	5129
20°	11287	5065	3688	5065
25°	11986	4986	3646	4986
30°	10274	4928	3665	4928
35°	7144	4846	3704	4846
40°	5382	4749	3693	4749
45°	4468	4606	3646	4606
50°	4002	4315	3612	4315
55°	3742	4001	3567	4001
60°	3511	3670	3531	3670
65°	3298	3347	3418	3347
70°	3094	2977	3254	2977
75°	2770	2608	2986	2608
80°	2424	2139	2572	2139
85°	1902	1556	1729	1556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.4	0.7
10°-20°	151.9	2.3
20°-30°	254.9	3.8
30°-40°	288.6	4.3
40°-50°	258.8	3.8
50°-60°	208.9	3.1
60°-70°	145.6	2.2
70°-80°	76.5	1.1
80°-90°	23.5	0.3
90°-100°	62.9	0.9
100°-110°	299.9	4.5
110°-120°	720.3	10.7
120°-130°	917.3	13.6
130°-140°	980.1	14.6
140°-150°	916.5	13.6
150°-160°	739.3	11.0
160°-170°	477.1	7.1
170°-180°	164.4	2.4
0°-30°	454.2	6.7
0°-40°	742.8	11.0
0°-60°	1210.5	18.0
0°-90°	1456.1	21.6
90°-120°	1083.2	16.1
90°-150°	3897.1	57.9
90°-180°	5278.0	78.4
0°-180°	6734.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	481	481	481	481	481	
5°	571	481	426	481	571	59
15°	850	460	348	460	850	246
25°	1009	420	307	420	1009	443
35°	544	369	282	369	544	353
45°	294	303	240	303	294	232
55°	199	213	190	213	199	179
65°	130	131	134	131	130	129
75°	67	63	72	63	67	71
85°	15	13	14	13	15	19
90°	39	1	39	1	39	18
95°	49	78	49	78	49	41
105°	57	383	57	383	57	129
115°	756	719	756	719	756	699
125°	1034	1013	1034	1013	1034	923
135°	1274	1261	1274	1261	1274	983
145°	1470	1456	1470	1456	1470	917
155°	1601	1603	1601	1603	1601	738
165°	1687	1691	1687	1691	1687	476
175°	1724	1731	1724	1731	1724	164
180°	1731	1731	1731	1731	1731	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	510.3	509.9	509.0	509.7	508.2	506.2	506.0	504.1	498.7	498.4	496.9
5°	571.2	569.4	569.1	568.9	565.6	561.2	552.8	552.1	540.9	535.4	528.6
7.5°	650.2	651.1	647.7	644.8	634.8	628.2	619.2	607.7	594.0	580.0	570.8
10°	706.8	714.5	705.0	698.4	692.4	681.0	667.7	651.1	634.6	615.3	600.6
12.5°	767.6	771.3	769.4	763.3	753.9	736.5	713.0	694.7	679.5	647.3	634.3
15°	850.3	864.5	855.4	834.5	834.9	818.4	787.7	753.9	735.9	707.7	669.3
17.5°	938.5	940.2	936.4	918.9	907.3	884.5	856.1	823.8	787.4	753.3	712.5
20°	985.4	984.0	975.9	966.8	946.8	929.1	898.1	862.0	815.4	781.8	737.3
22.5°	1011.5	1009.2	1005.3	997.7	981.1	962.1	934.2	894.8	850.4	804.2	752.8
25°	1009.2	1012.2	1012.7	1010.6	1004.8	993.4	971.5	940.0	895.8	836.3	782.8
27.5°	917.9	922.2	934.6	945.7	958.0	970.6	968.9	953.3	920.5	869.2	803.7
30°	826.6	817.2	840.3	869.4	889.2	924.2	943.7	944.9	926.5	882.5	818.6
32.5°	699.8	710.1	720.3	756.1	799.4	838.6	877.6	908.9	912.5	883.2	827.4
35°	543.7	556.6	575.2	593.8	640.4	680.5	749.0	808.6	856.1	862.4	828.2
37.5°	438.2	444.5	456.3	475.0	505.4	553.0	605.9	681.3	750.2	801.4	803.6
40°	383.0	384.9	398.1	412.3	437.0	476.2	523.9	590.6	673.0	744.6	774.4
42.5°	341.6	345.7	351.4	365.0	384.7	414.1	458.5	513.6	589.2	671.5	729.8
45°	293.5	298.2	301.7	310.8	324.8	344.6	375.5	425.9	483.4	568.4	646.9
47.5°	261.8	262.1	264.7	271.6	281.1	296.0	317.9	350.2	403.0	472.0	552.6
50°	239.0	242.7	243.7	249.0	256.5	267.4	285.6	313.1	356.4	417.0	491.1
52.5°	223.0	224.1	226.7	230.6	237.1	245.6	261.4	282.9	316.9	368.6	436.7
55°	199.4	199.4	202.0	205.0	208.7	216.4	226.9	242.7	268.6	308.7	365.1
57.5°	177.6	178.8	180.6	181.5	184.7	189.8	198.5	210.6	229.8	260.7	305.5
60°	163.1	165.2	164.9	166.8	169.6	173.6	181.0	190.8	208.0	232.7	270.5
62.5°	150.4	150.3	150.2	152.5	155.2	159.0	163.9	172.3	187.0	208.9	241.0
65°	129.5	129.1	130.7	132.1	133.0	135.8	139.5	147.0	156.8	173.1	198.0
67.5°	111.0	109.6	110.5	111.0	112.6	114.8	118.3	122.9	130.6	143.7	162.5
70°	98.3	97.1	96.9	97.4	98.8	100.4	103.0	107.4	114.6	125.1	138.8
72.5°	85.3	84.5	84.4	85.5	86.1	87.2	89.0	93.0	98.8	106.7	119.5
75°	66.6	66.6	66.6	66.9	67.6	68.5	69.9	72.0	76.4	82.0	90.6
77.5°	49.9	49.9	49.6	49.6	50.6	51.0	51.3	53.3	55.8	59.5	65.8
80°	39.1	38.0	38.4	39.1	39.6	39.8	40.5	41.0	43.1	45.2	49.6
82.5°	29.1	28.1	28.2	29.3	29.4	29.6	30.3	30.9	31.7	33.6	36.0
85°	15.4	15.4	15.6	15.6	15.8	15.6	16.3	16.5	16.5	17.7	19.1
87.5°	13.3	12.8	12.9	13.0	12.7	12.7	12.6	12.6	12.6	12.5	12.0
90°	38.6	38.0	37.4	36.9	36.3	35.4	34.3	33.1	32.0	30.9	27.1
92.5°	42.7	42.3	42.0	41.7	41.3	40.2	38.4	36.6	34.7	32.9	30.1
95°	48.9	48.9	48.9	48.9	48.9	47.9	45.9	43.9	41.9	39.9	36.7
97.5°	53.0	52.7	52.4	52.1	51.8	50.5	48.3	46.0	43.7	41.4	38.0
100°	54.0	53.7	53.4	53.1	52.9	51.6	49.3	47.0	44.7	42.4	39.0
102.5°	55.0	54.5	54.0	53.5	53.0	52.3	50.4	48.4	46.4	44.4	42.4
105°	56.6	56.0	55.4	54.9	54.3	53.6	51.9	50.4	48.9	47.4	45.9
107.5°	177.7	215.8	253.9	292.1	330.2	367.8	404.9	442.0	479.0	516.1	553.2
110°	353.6	394.5	435.3	476.2	517.0	557.8	598.7	639.6	680.5	721.4	762.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	606.7	615.3	623.9	632.5	641.2	645.4	645.2	645.1	644.9	644.7	641.6
115°	756.1	754.9	753.8	752.6	751.5	749.5	746.6	743.8	740.9	738.1	735.5
117.5°	839.9	839.7	839.4	839.2	839.0	837.7	835.4	833.2	830.9	828.6	827.3
120°	897.5	897.5	897.5	897.5	897.5	896.4	894.1	891.8	889.5	887.2	886.4
122.5°	954.1	953.9	953.6	953.4	953.2	952.3	950.7	949.1	947.5	945.9	944.8
125°	1033.8	1033.2	1032.7	1032.1	1031.5	1030.9	1030.4	1029.8	1029.2	1028.7	1027.5
127.5°	1110.4	1111.0	1111.6	1112.2	1112.7	1112.6	1111.6	1110.7	1109.8	1108.9	1107.5
130°	1159.8	1160.4	1161.0	1161.5	1162.1	1161.8	1160.7	1159.5	1158.4	1157.2	1156.1
132.5°	1205.1	1205.9	1206.7	1207.5	1208.3	1208.1	1207.0	1205.8	1204.7	1203.5	1202.6
135°	1274.3	1275.1	1276.0	1276.8	1277.7	1277.7	1276.8	1276.0	1275.1	1274.3	1273.1
137.5°	1339.3	1339.9	1340.5	1341.0	1341.6	1341.2	1339.8	1338.5	1337.1	1335.7	1335.1
140°	1378.4	1379.0	1379.5	1380.1	1380.7	1380.4	1379.3	1378.1	1377.0	1375.8	1375.0
142.5°	1414.4	1415.2	1416.0	1416.8	1417.6	1417.6	1416.6	1415.7	1414.8	1413.9	1413.0
145°	1469.7	1469.7	1469.7	1469.7	1469.7	1469.4	1468.8	1468.3	1467.7	1467.1	1466.6
147.5°	1510.8	1512.2	1513.5	1514.8	1516.1	1516.5	1515.9	1515.3	1514.8	1514.2	1513.6
150°	1541.7	1542.6	1543.4	1544.3	1545.1	1545.3	1544.7	1544.1	1543.6	1543.0	1542.4
152.5°	1566.4	1567.7	1569.0	1570.3	1571.7	1571.8	1570.8	1569.7	1568.7	1567.7	1567.3
155°	1600.9	1602.6	1604.3	1606.0	1607.7	1607.9	1606.4	1605.0	1603.6	1602.1	1601.9
157.5°	1629.9	1632.1	1634.4	1636.6	1638.8	1639.1	1637.4	1635.7	1633.9	1632.2	1632.5
160°	1648.4	1650.4	1652.4	1654.4	1656.4	1656.6	1654.9	1653.1	1651.4	1649.7	1650.0
162.5°	1665.9	1667.7	1669.5	1671.2	1673.0	1672.9	1671.0	1669.0	1667.1	1665.1	1665.4
165°	1687.0	1689.0	1691.0	1693.0	1695.0	1694.9	1692.6	1690.3	1688.0	1685.7	1686.0
167.5°	1702.2	1704.5	1706.8	1709.0	1711.3	1711.3	1709.0	1706.8	1704.5	1702.2	1702.2
170°	1711.4	1713.7	1716.0	1718.3	1720.6	1720.6	1718.3	1716.0	1713.7	1711.4	1711.4
172.5°	1716.6	1719.1	1721.6	1724.1	1726.6	1726.8	1724.5	1722.2	1719.9	1717.6	1717.4
175°	1724.3	1726.6	1728.9	1731.2	1733.4	1733.6	1731.6	1729.6	1727.6	1725.6	1725.3
177.5°	1726.6	1728.9	1731.2	1733.5	1735.8	1736.0	1734.2	1732.3	1730.5	1728.7	1728.4
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	495.7	494.3	492.8	490.2	487.9	484.8	483.8	482.7	479.3	476.4	474.1
5°	526.0	520.4	512.3	504.8	498.8	490.6	486.0	481.1	474.1	467.8	462.7
7.5°	557.7	546.7	534.0	520.4	507.6	495.3	485.4	476.5	466.7	457.5	450.2
10°	582.9	567.0	549.3	530.2	513.9	498.1	484.8	473.2	460.6	449.6	440.5
12.5°	611.6	588.1	563.7	540.5	521.2	499.2	483.1	468.3	454.0	440.9	430.7
15°	645.5	615.7	586.8	554.9	525.6	498.1	479.0	460.3	443.8	430.3	417.2
17.5°	676.5	642.7	604.6	565.8	530.4	497.8	471.1	450.0	429.3	412.8	399.8
20°	694.0	655.6	612.5	572.2	533.0	496.7	467.3	442.2	419.8	402.3	387.7
22.5°	709.1	664.1	619.5	576.4	532.8	493.7	460.4	434.5	410.3	393.2	377.6
25°	724.8	670.9	626.2	575.7	527.0	486.4	449.2	419.8	395.6	375.5	359.5
27.5°	738.2	670.5	617.4	563.0	517.7	477.1	437.3	405.8	380.1	358.3	342.0
30°	747.1	671.4	608.3	554.5	508.8	466.9	428.2	396.5	369.5	347.4	332.0
32.5°	752.7	670.8	599.9	542.5	494.6	457.5	418.3	385.5	357.7	336.0	321.2
35°	756.0	666.7	585.4	517.9	471.8	435.6	402.8	368.8	339.7	319.4	302.6
37.5°	749.4	658.1	568.7	494.1	443.6	408.1	380.4	351.5	323.6	301.3	286.8
40°	739.2	652.5	555.6	477.3	424.2	390.0	366.5	338.0	310.5	289.3	275.8
42.5°	719.6	641.2	541.3	458.7	404.1	369.9	348.2	324.4	298.4	278.5	265.0
45°	671.9	616.4	519.7	430.8	374.4	339.0	319.9	302.6	279.1	259.8	248.1
47.5°	605.6	579.2	488.6	401.3	343.3	309.3	289.4	275.6	258.4	242.7	231.6
50°	559.6	548.6	467.6	381.1	322.7	289.3	270.2	257.7	245.3	229.7	219.5
52.5°	506.5	513.2	443.0	360.3	301.6	268.8	250.9	240.9	229.7	216.8	207.9
55°	431.7	456.1	400.5	325.2	270.2	239.0	222.0	213.2	206.6	197.1	189.4
57.5°	361.7	392.8	354.5	289.1	239.4	212.5	196.2	186.6	182.4	177.4	171.3
60°	320.1	350.8	321.7	264.9	218.8	193.1	178.7	170.5	166.3	162.8	157.7
62.5°	283.0	314.1	289.7	240.3	198.4	174.7	162.1	154.1	150.9	149.1	144.7
65°	232.0	258.8	242.5	202.0	169.4	148.4	137.0	131.4	128.4	127.7	124.9
67.5°	188.8	209.2	197.4	167.5	141.9	123.8	114.1	109.3	107.0	106.7	104.6
70°	160.5	179.6	170.5	143.5	121.4	107.2	98.8	94.6	93.2	93.0	91.8
72.5°	138.5	151.8	144.6	122.1	105.0	92.1	85.9	81.5	80.0	80.3	79.5
75°	102.5	112.5	108.3	92.7	79.0	70.6	65.5	62.7	61.3	62.0	61.0
77.5°	73.8	80.1	76.3	65.5	57.0	51.0	47.2	45.5	44.2	44.2	43.8
80°	55.7	59.4	57.3	50.8	43.8	38.7	35.6	34.5	33.8	33.5	33.3
82.5°	39.7	42.8	40.3	35.9	31.1	28.0	26.3	24.8	24.3	24.4	24.2
85°	20.0	21.2	20.3	17.5	15.6	14.2	13.3	12.6	12.1	12.3	11.9
87.5°	11.6	11.0	9.7	8.3	7.4	6.2	5.7	4.7	4.9	5.5	5.9
90°	23.4	19.7	16.0	12.7	9.9	7.0	4.1	1.3	4.1	7.0	9.9
92.5°	27.3	24.5	21.7	20.7	21.5	22.3	23.1	23.9	23.1	22.3	21.5
95°	33.6	30.4	27.3	31.6	43.3	55.0	66.7	78.4	66.7	55.0	43.3
97.5°	82.6	103.1	123.7	136.6	141.9	147.1	152.4	157.6	152.4	147.1	141.9
100°	131.6	176.2	220.7	240.2	234.4	228.7	223.0	217.3	223.0	228.7	234.4
102.5°	182.0	230.7	279.4	301.7	297.5	293.4	289.3	285.2	289.3	293.4	297.5
105°	333.0	358.7	384.5	395.7	392.6	389.5	386.3	383.2	386.3	389.5	392.6
107.5°	508.0	504.0	499.9	496.6	494.1	491.6	489.1	486.6	489.1	491.6	494.1
110°	573.6	570.5	567.3	564.6	562.3	560.0	557.8	555.5	557.8	560.0	562.3





TEST NUMBER: P332108

CATALOG NUMBER: S123DIW-S340D1320U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	638.4	635.3	632.1	629.5	627.5	625.4	623.4	621.3	623.4	625.4	627.5
115°	732.9	730.3	727.8	725.6	723.9	722.2	720.5	718.8	720.5	722.2	723.9
117.5°	826.0	824.6	823.3	821.6	819.5	817.4	815.3	813.2	815.3	817.4	819.5
120°	885.5	884.6	883.8	882.1	879.5	876.9	874.4	871.8	874.4	876.9	879.5
122.5°	943.7	942.6	941.5	939.9	937.8	935.7	933.6	931.5	933.6	935.7	937.8
125°	1026.4	1025.2	1024.1	1022.4	1020.1	1017.8	1015.5	1013.2	1015.5	1017.8	1020.1
127.5°	1106.2	1104.8	1103.4	1101.6	1099.3	1097.0	1094.7	1092.4	1094.7	1097.0	1099.3
130°	1155.0	1153.8	1152.7	1151.0	1148.7	1146.4	1144.1	1141.8	1144.1	1146.4	1148.7
132.5°	1201.7	1200.8	1199.9	1198.3	1196.0	1193.7	1191.4	1189.1	1191.4	1193.7	1196.0
135°	1272.0	1270.8	1269.7	1268.3	1266.5	1264.8	1263.1	1261.4	1263.1	1264.8	1266.5
137.5°	1334.5	1333.8	1333.2	1331.8	1329.6	1327.5	1325.3	1323.1	1325.3	1327.5	1329.6
140°	1374.1	1373.3	1372.4	1371.1	1369.4	1367.7	1366.0	1364.3	1366.0	1367.7	1369.4
142.5°	1412.2	1411.3	1410.5	1409.2	1407.5	1405.8	1404.0	1402.3	1404.0	1405.8	1407.5
145°	1466.0	1465.4	1464.8	1463.6	1461.6	1459.6	1457.6	1455.6	1457.6	1459.6	1461.6
147.5°	1513.0	1512.5	1511.9	1511.0	1509.6	1508.3	1507.0	1505.7	1507.0	1508.3	1509.6
150°	1541.8	1541.3	1540.7	1540.0	1539.1	1538.3	1537.4	1536.6	1537.4	1538.3	1539.1
152.5°	1567.0	1566.7	1566.3	1565.9	1565.5	1565.1	1564.7	1564.3	1564.7	1565.1	1565.5
155°	1601.6	1601.3	1601.0	1601.1	1601.7	1602.3	1602.9	1603.4	1602.9	1602.3	1601.7
157.5°	1632.8	1633.1	1633.4	1633.5	1633.6	1633.7	1633.7	1633.8	1633.7	1633.7	1633.6
160°	1650.3	1650.6	1650.9	1651.1	1651.4	1651.7	1652.0	1652.3	1652.0	1651.7	1651.4
162.5°	1665.7	1666.0	1666.3	1666.8	1667.5	1668.3	1669.0	1669.8	1669.0	1668.3	1667.5
165°	1686.3	1686.6	1686.9	1687.4	1688.3	1689.1	1690.0	1690.9	1690.0	1689.1	1688.3
167.5°	1702.2	1702.2	1702.2	1702.7	1703.9	1705.0	1706.2	1707.3	1706.2	1705.0	1703.9
170°	1711.4	1711.4	1711.4	1712.0	1713.2	1714.3	1715.4	1716.6	1715.4	1714.3	1713.2
172.5°	1717.2	1716.9	1716.7	1717.3	1718.6	1720.0	1721.4	1722.8	1721.4	1720.0	1718.6
175°	1725.0	1724.7	1724.4	1725.0	1726.4	1727.9	1729.3	1730.7	1729.3	1727.9	1726.4
177.5°	1728.2	1728.0	1727.8	1728.2	1729.4	1730.5	1731.6	1732.8	1731.6	1730.5	1729.4
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332108

CATALOG NUMBER: S123DIW-S340D1320U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	472.8	471.5	469.7	466.9	464.6	461.1	461.1	461.6	461.6	461.5	461.1
5°	458.5	455.0	450.8	445.9	440.8	435.6	434.7	432.8	431.5	430.5	429.4
7.5°	443.3	437.1	431.0	424.2	417.9	412.8	409.2	406.2	404.3	402.2	400.7
10°	433.1	425.4	418.2	411.0	403.0	396.7	392.8	390.0	387.9	386.0	385.1
12.5°	421.0	412.2	404.2	397.3	388.7	382.2	378.4	377.1	374.7	370.7	368.7
15°	403.3	395.1	385.6	375.1	370.9	363.0	358.5	356.4	355.0	352.0	351.1
17.5°	388.1	377.5	366.7	358.9	351.1	344.7	342.2	339.6	337.8	335.3	334.5
20°	376.0	366.5	356.7	348.3	340.1	333.1	331.0	329.2	327.3	326.2	325.2
22.5°	363.7	354.2	346.0	338.2	329.5	324.9	322.7	320.6	319.3	318.5	317.6
25°	346.4	338.0	328.9	322.0	315.0	311.9	310.5	309.4	308.4	307.3	307.0
27.5°	331.0	321.8	314.5	307.9	302.9	300.4	299.0	298.5	298.7	299.1	299.4
30°	319.4	311.0	305.0	299.4	294.7	292.4	292.1	292.1	293.1	293.3	293.8
32.5°	308.8	301.9	295.8	290.4	286.9	285.3	286.2	286.2	286.9	287.5	288.4
35°	293.3	287.2	282.6	277.9	274.9	275.6	276.1	276.5	277.7	279.1	280.0
37.5°	278.5	273.3	268.4	264.8	263.4	264.6	265.8	266.7	268.1	269.2	270.1
40°	267.9	263.9	259.3	256.0	256.5	257.2	258.1	259.3	260.5	261.2	262.1
42.5°	258.0	253.9	250.3	247.6	248.3	249.2	249.7	250.3	251.7	253.0	253.5
45°	243.0	239.7	236.5	234.8	235.3	235.8	236.2	236.9	238.1	239.0	239.3
47.5°	226.1	223.8	221.6	220.0	220.8	220.6	221.2	222.7	223.0	223.6	224.9
50°	215.3	213.2	210.6	210.1	210.1	210.1	210.4	212.2	212.2	213.2	214.1
52.5°	203.3	202.0	200.4	199.5	199.1	199.1	200.1	201.0	201.4	202.7	203.7
55°	185.7	184.3	182.9	182.2	181.7	182.2	184.0	184.5	185.7	186.4	187.1
57.5°	167.3	166.2	165.1	164.7	164.6	165.2	166.2	167.6	167.9	170.1	171.1
60°	155.2	153.5	152.6	152.6	152.1	154.2	153.8	156.1	156.6	158.0	159.6
62.5°	142.7	140.5	140.1	140.1	140.8	141.4	142.0	143.0	144.3	146.0	147.3
65°	122.5	121.4	123.0	122.8	122.3	123.7	123.7	124.9	126.3	127.9	130.5
67.5°	103.5	102.9	103.0	103.0	103.7	104.5	105.2	106.2	107.9	109.6	111.3
70°	90.6	91.3	90.2	91.1	91.8	92.0	92.5	93.9	95.7	96.9	98.8
72.5°	78.1	78.1	78.2	78.6	79.3	79.7	80.2	81.8	83.8	84.8	86.3
75°	60.1	59.9	60.6	60.6	61.7	62.2	62.7	63.4	65.2	66.6	67.8
77.5°	43.9	44.2	44.0	44.8	44.5	44.6	46.0	46.7	46.9	49.7	50.3
80°	33.1	33.5	33.8	34.0	34.2	33.8	35.4	36.1	36.1	37.7	38.9
82.5°	23.8	24.0	24.6	24.9	24.9	25.4	25.5	26.0	26.6	27.3	28.8
85°	11.9	12.6	12.8	12.6	12.8	12.3	13.0	13.3	13.5	13.5	13.5
87.5°	6.3	7.1	7.7	8.6	9.2	10.1	10.3	10.2	10.4	11.2	10.6
90°	12.7	16.0	19.7	23.4	27.1	30.9	32.0	33.1	34.3	35.4	36.3
92.5°	20.7	21.7	24.5	27.3	30.1	32.9	34.7	36.6	38.4	40.2	41.3
95°	31.6	27.3	30.4	33.6	36.7	39.9	41.9	43.9	45.9	47.9	48.9
97.5°	136.6	123.7	103.1	82.6	62.0	41.4	43.7	46.0	48.3	50.5	51.8
100°	240.2	220.7	176.2	131.6	87.0	42.4	44.7	47.0	49.3	51.6	52.9
102.5°	301.7	279.4	230.7	182.0	133.3	84.6	77.5	70.4	63.3	56.3	53.0
105°	395.7	384.5	358.7	333.0	307.3	281.6	231.0	180.4	129.9	79.3	54.3
107.5°	496.6	499.9	504.0	508.0	512.1	516.1	479.0	442.0	404.9	367.8	330.2
110°	564.6	567.3	570.5	573.6	576.8	579.9	570.5	561.0	551.6	542.2	517.0



TEST NUMBER: P332108

CATALOG NUMBER: S123DIW-S340D1320U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	629.5	632.1	635.3	638.4	641.6	644.7	644.9	645.1	645.2	645.4	641.2
115°	725.6	727.8	730.3	732.9	735.5	738.1	740.9	743.8	746.6	749.5	751.5
117.5°	821.6	823.3	824.6	826.0	827.3	828.6	830.9	833.2	835.4	837.7	839.0
120°	882.1	883.8	884.6	885.5	886.4	887.2	889.5	891.8	894.1	896.4	897.5
122.5°	939.9	941.5	942.6	943.7	944.8	945.9	947.5	949.1	950.7	952.3	953.2
125°	1022.4	1024.1	1025.2	1026.4	1027.5	1028.7	1029.2	1029.8	1030.4	1030.9	1031.5
127.5°	1101.6	1103.4	1104.8	1106.2	1107.5	1108.9	1109.8	1110.7	1111.6	1112.6	1112.7
130°	1151.0	1152.7	1153.8	1155.0	1156.1	1157.2	1158.4	1159.5	1160.7	1161.8	1162.1
132.5°	1198.3	1199.9	1200.8	1201.7	1202.6	1203.5	1204.7	1205.8	1207.0	1208.1	1208.3
135°	1268.3	1269.7	1270.8	1272.0	1273.1	1274.3	1275.1	1276.0	1276.8	1277.7	1277.7
137.5°	1331.8	1333.2	1333.8	1334.5	1335.1	1335.7	1337.1	1338.5	1339.8	1341.2	1341.6
140°	1371.1	1372.4	1373.3	1374.1	1375.0	1375.8	1377.0	1378.1	1379.3	1380.4	1380.7
142.5°	1409.2	1410.5	1411.3	1412.2	1413.0	1413.9	1414.8	1415.7	1416.6	1417.6	1417.6
145°	1463.6	1464.8	1465.4	1466.0	1466.6	1467.1	1467.7	1468.3	1468.8	1469.4	1469.7
147.5°	1511.0	1511.9	1512.5	1513.0	1513.6	1514.2	1514.8	1515.3	1515.9	1516.5	1516.1
150°	1540.0	1540.7	1541.3	1541.8	1542.4	1543.0	1543.6	1544.1	1544.7	1545.3	1545.1
152.5°	1565.9	1566.3	1566.7	1567.0	1567.3	1567.7	1568.7	1569.7	1570.8	1571.8	1571.7
155°	1601.1	1601.0	1601.3	1601.6	1601.9	1602.1	1603.6	1605.0	1606.4	1607.9	1607.7
157.5°	1633.5	1633.4	1633.1	1632.8	1632.5	1632.2	1633.9	1635.7	1637.4	1639.1	1638.8
160°	1651.1	1650.9	1650.6	1650.3	1650.0	1649.7	1651.4	1653.1	1654.9	1656.6	1656.4
162.5°	1666.8	1666.3	1666.0	1665.7	1665.4	1665.1	1667.1	1669.0	1671.0	1672.9	1673.0
165°	1687.4	1686.9	1686.6	1686.3	1686.0	1685.7	1688.0	1690.3	1692.6	1694.9	1695.0
167.5°	1702.7	1702.2	1702.2	1702.2	1702.2	1702.2	1704.5	1706.8	1709.0	1711.3	1711.3
170°	1712.0	1711.4	1711.4	1711.4	1711.4	1711.4	1713.7	1716.0	1718.3	1720.6	1720.6
172.5°	1717.3	1716.7	1716.9	1717.2	1717.4	1717.6	1719.9	1722.2	1724.5	1726.8	1726.6
175°	1725.0	1724.4	1724.7	1725.0	1725.3	1725.6	1727.6	1729.6	1731.6	1733.6	1733.4
177.5°	1728.2	1727.8	1728.0	1728.2	1728.4	1728.7	1730.5	1732.3	1734.2	1736.0	1735.8
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332108

CATALOG NUMBER: S123DIW-S340D1320U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	459.8	459.6	460.9	460.0	460.9	459.6	459.8	461.1	461.5	461.6	461.6
5°	428.0	428.7	426.3	426.3	426.3	428.7	428.0	429.4	430.5	431.5	432.8
7.5°	399.6	398.6	398.7	397.4	398.7	398.6	399.6	400.7	402.2	404.3	406.2
10°	382.3	380.9	380.4	380.7	380.4	380.9	382.3	385.1	386.0	387.9	390.0
12.5°	367.9	367.7	364.6	364.6	364.6	367.7	367.9	368.7	370.7	374.7	377.1
15°	351.1	346.7	346.2	347.6	346.2	346.7	351.1	351.1	352.0	355.0	356.4
17.5°	334.2	331.8	332.0	331.3	332.0	331.8	334.2	334.5	335.3	337.8	339.6
20°	325.2	323.8	323.6	322.0	323.6	323.8	325.2	325.2	326.2	327.3	329.2
22.5°	317.0	316.6	316.7	314.9	316.7	316.6	317.0	317.6	318.5	319.3	320.6
25°	306.8	308.0	307.0	307.0	307.0	308.0	306.8	307.0	307.3	308.4	309.4
27.5°	299.9	299.9	299.4	299.4	299.4	299.9	299.9	299.4	299.1	298.7	298.5
30°	294.7	294.5	294.9	294.9	294.9	294.5	294.7	293.8	293.3	293.1	292.1
32.5°	289.5	289.8	289.9	290.1	289.9	289.8	289.5	288.4	287.5	286.9	286.2
35°	281.4	281.7	282.4	281.9	282.4	281.7	281.4	280.0	279.1	277.7	276.5
37.5°	270.5	271.6	271.4	271.7	271.4	271.6	270.5	270.1	269.2	268.1	266.7
40°	262.3	263.0	262.8	262.8	262.8	263.0	262.3	262.1	261.2	260.5	259.3
42.5°	253.9	254.4	253.8	253.5	253.8	254.4	253.9	253.5	253.0	251.7	250.3
45°	240.2	239.7	240.4	239.5	240.4	239.7	240.2	239.3	239.0	238.1	236.9
47.5°	224.8	225.3	225.5	226.2	225.5	225.3	224.8	224.9	223.6	223.0	222.7
50°	214.6	216.0	216.0	215.7	216.0	216.0	214.6	214.1	213.2	212.2	212.2
52.5°	204.5	205.1	206.1	206.0	206.1	205.1	204.5	203.7	202.7	201.4	201.0
55°	188.9	189.4	189.9	190.1	189.9	189.4	188.9	187.1	186.4	185.7	184.5
57.5°	172.8	172.6	173.7	174.1	173.7	172.6	172.8	171.1	170.1	167.9	167.6
60°	161.4	161.4	163.3	164.0	163.3	161.4	161.4	159.6	158.0	156.6	156.1
62.5°	149.3	150.1	151.9	151.0	151.9	150.1	149.3	147.3	146.0	144.3	143.0
65°	131.6	133.5	133.3	134.2	133.3	133.5	131.6	130.5	127.9	126.3	124.9
67.5°	113.1	114.3	116.0	116.1	116.0	114.3	113.1	111.3	109.6	107.9	106.2
70°	100.6	101.8	102.7	103.4	102.7	101.8	100.6	98.8	96.9	95.7	93.9
72.5°	88.5	89.1	91.4	90.4	91.4	89.1	88.5	86.3	84.8	83.8	81.8
75°	69.4	71.1	72.5	71.8	72.5	71.1	69.4	67.8	66.6	65.2	63.4
77.5°	51.3	53.0	53.6	53.0	53.6	53.0	51.3	50.3	49.7	46.9	46.7
80°	40.5	40.3	41.7	41.5	41.7	40.3	40.5	38.9	37.7	36.1	36.1
82.5°	29.7	29.5	30.1	30.3	30.1	29.5	29.7	28.8	27.3	26.6	26.0
85°	14.4	15.1	14.2	14.0	14.2	15.1	14.4	13.5	13.5	13.5	13.3
87.5°	10.7	10.8	10.8	10.7	10.8	10.8	10.7	10.6	11.2	10.4	10.2
90°	36.9	37.4	38.0	38.6	38.0	37.4	36.9	36.3	35.4	34.3	33.1
92.5°	41.7	42.0	42.3	42.7	42.3	42.0	41.7	41.3	40.2	38.4	36.6
95°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	47.9	45.9	43.9
97.5°	52.1	52.4	52.7	53.0	52.7	52.4	52.1	51.8	50.5	48.3	46.0
100°	53.1	53.4	53.7	54.0	53.7	53.4	53.1	52.9	51.6	49.3	47.0
102.5°	53.5	54.0	54.5	55.0	54.5	54.0	53.5	53.0	56.3	63.3	70.4
105°	54.9	55.4	56.0	56.6	56.0	55.4	54.9	54.3	79.3	129.9	180.4
107.5°	292.1	253.9	215.8	177.7	215.8	253.9	292.1	330.2	367.8	404.9	442.0
110°	476.2	435.3	394.5	353.6	394.5	435.3	476.2	517.0	542.2	551.6	561.0



TEST NUMBER: P332108

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	632.5	623.9	615.3	606.7	615.3	623.9	632.5	641.2	645.4	645.2	645.1
115°	752.6	753.8	754.9	756.1	754.9	753.8	752.6	751.5	749.5	746.6	743.8
117.5°	839.2	839.4	839.7	839.9	839.7	839.4	839.2	839.0	837.7	835.4	833.2
120°	897.5	897.5	897.5	897.5	897.5	897.5	897.5	897.5	896.4	894.1	891.8
122.5°	953.4	953.6	953.9	954.1	953.9	953.6	953.4	953.2	952.3	950.7	949.1
125°	1032.1	1032.7	1033.2	1033.8	1033.2	1032.7	1032.1	1031.5	1030.9	1030.4	1029.8
127.5°	1112.2	1111.6	1111.0	1110.4	1111.0	1111.6	1112.2	1112.7	1112.6	1111.6	1110.7
130°	1161.5	1161.0	1160.4	1159.8	1160.4	1161.0	1161.5	1162.1	1161.8	1160.7	1159.5
132.5°	1207.5	1206.7	1205.9	1205.1	1205.9	1206.7	1207.5	1208.3	1208.1	1207.0	1205.8
135°	1276.8	1276.0	1275.1	1274.3	1275.1	1276.0	1276.8	1277.7	1277.7	1276.8	1276.0
137.5°	1341.0	1340.5	1339.9	1339.3	1339.9	1340.5	1341.0	1341.6	1341.2	1339.8	1338.5
140°	1380.1	1379.5	1379.0	1378.4	1379.0	1379.5	1380.1	1380.7	1380.4	1379.3	1378.1
142.5°	1416.8	1416.0	1415.2	1414.4	1415.2	1416.0	1416.8	1417.6	1417.6	1416.6	1415.7
145°	1469.7	1469.7	1469.7	1469.7	1469.7	1469.7	1469.7	1469.7	1469.4	1468.8	1468.3
147.5°	1514.8	1513.5	1512.2	1510.8	1512.2	1513.5	1514.8	1516.1	1516.5	1515.9	1515.3
150°	1544.3	1543.4	1542.6	1541.7	1542.6	1543.4	1544.3	1545.1	1545.3	1544.7	1544.1
152.5°	1570.3	1569.0	1567.7	1566.4	1567.7	1569.0	1570.3	1571.7	1571.8	1570.8	1569.7
155°	1606.0	1604.3	1602.6	1600.9	1602.6	1604.3	1606.0	1607.7	1607.9	1606.4	1605.0
157.5°	1636.6	1634.4	1632.1	1629.9	1632.1	1634.4	1636.6	1638.8	1639.1	1637.4	1635.7
160°	1654.4	1652.4	1650.4	1648.4	1650.4	1652.4	1654.4	1656.4	1656.6	1654.9	1653.1
162.5°	1671.2	1669.5	1667.7	1665.9	1667.7	1669.5	1671.2	1673.0	1672.9	1671.0	1669.0
165°	1693.0	1691.0	1689.0	1687.0	1689.0	1691.0	1693.0	1695.0	1694.9	1692.6	1690.3
167.5°	1709.0	1706.8	1704.5	1702.2	1704.5	1706.8	1709.0	1711.3	1711.3	1709.0	1706.8
170°	1718.3	1716.0	1713.7	1711.4	1713.7	1716.0	1718.3	1720.6	1720.6	1718.3	1716.0
172.5°	1724.1	1721.6	1719.1	1716.6	1719.1	1721.6	1724.1	1726.6	1726.8	1724.5	1722.2
175°	1731.2	1728.9	1726.6	1724.3	1726.6	1728.9	1731.2	1733.4	1733.6	1731.6	1729.6
177.5°	1733.5	1731.2	1728.9	1726.6	1728.9	1731.2	1733.5	1735.8	1736.0	1734.2	1732.3
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	461.1	461.1	464.6	466.9	469.7	471.5	472.8	474.1	476.4	479.3	482.7
5°	434.7	435.6	440.8	445.9	450.8	455.0	458.5	462.7	467.8	474.1	481.1
7.5°	409.2	412.8	417.9	424.2	431.0	437.1	443.3	450.2	457.5	466.7	476.5
10°	392.8	396.7	403.0	411.0	418.2	425.4	433.1	440.5	449.6	460.6	473.2
12.5°	378.4	382.2	388.7	397.3	404.2	412.2	421.0	430.7	440.9	454.0	468.3
15°	358.5	363.0	370.9	375.1	385.6	395.1	403.3	417.2	430.3	443.8	460.3
17.5°	342.2	344.7	351.1	358.9	366.7	377.5	388.1	399.8	412.8	429.3	450.0
20°	331.0	333.1	340.1	348.3	356.7	366.5	376.0	387.7	402.3	419.8	442.2
22.5°	322.7	324.9	329.5	338.2	346.0	354.2	363.7	377.6	393.2	410.3	434.5
25°	310.5	311.9	315.0	322.0	328.9	338.0	346.4	359.5	375.5	395.6	419.8
27.5°	299.0	300.4	302.9	307.9	314.5	321.8	331.0	342.0	358.3	380.1	405.8
30°	292.1	292.4	294.7	299.4	305.0	311.0	319.4	332.0	347.4	369.5	396.5
32.5°	286.2	285.3	286.9	290.4	295.8	301.9	308.8	321.2	336.0	357.7	385.5
35°	276.1	275.6	274.9	277.9	282.6	287.2	293.3	302.6	319.4	339.7	368.8
37.5°	265.8	264.6	263.4	264.8	268.4	273.3	278.5	286.8	301.3	323.6	351.5
40°	258.1	257.2	256.5	256.0	259.3	263.9	267.9	275.8	289.3	310.5	338.0
42.5°	249.7	249.2	248.3	247.6	250.3	253.9	258.0	265.0	278.5	298.4	324.4
45°	236.2	235.8	235.3	234.8	236.5	239.7	243.0	248.1	259.8	279.1	302.6
47.5°	221.2	220.6	220.8	220.0	221.6	223.8	226.1	231.6	242.7	258.4	275.6
50°	210.4	210.1	210.1	210.1	210.6	213.2	215.3	219.5	229.7	245.3	257.7
52.5°	200.1	199.1	199.1	199.5	200.4	202.0	203.3	207.9	216.8	229.7	240.9
55°	184.0	182.2	181.7	182.2	182.9	184.3	185.7	189.4	197.1	206.6	213.2
57.5°	166.2	165.2	164.6	164.7	165.1	166.2	167.3	171.3	177.4	182.4	186.6
60°	153.8	154.2	152.1	152.6	152.6	153.5	155.2	157.7	162.8	166.3	170.5
62.5°	142.0	141.4	140.8	140.1	140.1	140.5	142.7	144.7	149.1	150.9	154.1
65°	123.7	123.7	122.3	122.8	123.0	121.4	122.5	124.9	127.7	128.4	131.4
67.5°	105.2	104.5	103.7	103.0	103.0	102.9	103.5	104.6	106.7	107.0	109.3
70°	92.5	92.0	91.8	91.1	90.2	91.3	90.6	91.8	93.0	93.2	94.6
72.5°	80.2	79.7	79.3	78.6	78.2	78.1	78.1	79.5	80.3	80.0	81.5
75°	62.7	62.2	61.7	60.6	60.6	59.9	60.1	61.0	62.0	61.3	62.7
77.5°	46.0	44.6	44.5	44.8	44.0	44.2	43.9	43.8	44.2	44.2	45.5
80°	35.4	33.8	34.2	34.0	33.8	33.5	33.1	33.3	33.5	33.8	34.5
82.5°	25.5	25.4	24.9	24.9	24.6	24.0	23.8	24.2	24.4	24.3	24.8
85°	13.0	12.3	12.8	12.6	12.8	12.6	11.9	11.9	12.3	12.1	12.6
87.5°	10.3	10.1	9.2	8.6	7.7	7.1	6.3	5.9	5.5	4.9	4.7
90°	32.0	30.9	27.1	23.4	19.7	16.0	12.7	9.9	7.0	4.1	1.3
92.5°	34.7	32.9	30.1	27.3	24.5	21.7	20.7	21.5	22.3	23.1	23.9
95°	41.9	39.9	36.7	33.6	30.4	27.3	31.6	43.3	55.0	66.7	78.4
97.5°	43.7	41.4	62.0	82.6	103.1	123.7	136.6	141.9	147.1	152.4	157.6
100°	44.7	42.4	87.0	131.6	176.2	220.7	240.2	234.4	228.7	223.0	217.3
102.5°	77.5	84.6	133.3	182.0	230.7	279.4	301.7	297.5	293.4	289.3	285.2
105°	231.0	281.6	307.3	333.0	358.7	384.5	395.7	392.6	389.5	386.3	383.2
107.5°	479.0	516.1	512.1	508.0	504.0	499.9	496.6	494.1	491.6	489.1	486.6
110°	570.5	579.9	576.8	573.6	570.5	567.3	564.6	562.3	560.0	557.8	555.5



TEST NUMBER: P332108

CATALOG NUMBER: S123DIW-S340D1320U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	644.9	644.7	641.6	638.4	635.3	632.1	629.5	627.5	625.4	623.4	621.3
115°	740.9	738.1	735.5	732.9	730.3	727.8	725.6	723.9	722.2	720.5	718.8
117.5°	830.9	828.6	827.3	826.0	824.6	823.3	821.6	819.5	817.4	815.3	813.2
120°	889.5	887.2	886.4	885.5	884.6	883.8	882.1	879.5	876.9	874.4	871.8
122.5°	947.5	945.9	944.8	943.7	942.6	941.5	939.9	937.8	935.7	933.6	931.5
125°	1029.2	1028.7	1027.5	1026.4	1025.2	1024.1	1022.4	1020.1	1017.8	1015.5	1013.2
127.5°	1109.8	1108.9	1107.5	1106.2	1104.8	1103.4	1101.6	1099.3	1097.0	1094.7	1092.4
130°	1158.4	1157.2	1156.1	1155.0	1153.8	1152.7	1151.0	1148.7	1146.4	1144.1	1141.8
132.5°	1204.7	1203.5	1202.6	1201.7	1200.8	1199.9	1198.3	1196.0	1193.7	1191.4	1189.1
135°	1275.1	1274.3	1273.1	1272.0	1270.8	1269.7	1268.3	1266.5	1264.8	1263.1	1261.4
137.5°	1337.1	1335.7	1335.1	1334.5	1333.8	1333.2	1331.8	1329.6	1327.5	1325.3	1323.1
140°	1377.0	1375.8	1375.0	1374.1	1373.3	1372.4	1371.1	1369.4	1367.7	1366.0	1364.3
142.5°	1414.8	1413.9	1413.0	1412.2	1411.3	1410.5	1409.2	1407.5	1405.8	1404.0	1402.3
145°	1467.7	1467.1	1466.6	1466.0	1465.4	1464.8	1463.6	1461.6	1459.6	1457.6	1455.6
147.5°	1514.8	1514.2	1513.6	1513.0	1512.5	1511.9	1511.0	1509.6	1508.3	1507.0	1505.7
150°	1543.6	1543.0	1542.4	1541.8	1541.3	1540.7	1540.0	1539.1	1538.3	1537.4	1536.6
152.5°	1568.7	1567.7	1567.3	1567.0	1566.7	1566.3	1565.9	1565.5	1565.1	1564.7	1564.3
155°	1603.6	1602.1	1601.9	1601.6	1601.3	1601.0	1601.1	1601.7	1602.3	1602.9	1603.4
157.5°	1633.9	1632.2	1632.5	1632.8	1633.1	1633.4	1633.5	1633.6	1633.7	1633.7	1633.8
160°	1651.4	1649.7	1650.0	1650.3	1650.6	1650.9	1651.1	1651.4	1651.7	1652.0	1652.3
162.5°	1667.1	1665.1	1665.4	1665.7	1666.0	1666.3	1666.8	1667.5	1668.3	1669.0	1669.8
165°	1688.0	1685.7	1686.0	1686.3	1686.6	1686.9	1687.4	1688.3	1689.1	1690.0	1690.9
167.5°	1704.5	1702.2	1702.2	1702.2	1702.2	1702.2	1702.7	1703.9	1705.0	1706.2	1707.3
170°	1713.7	1711.4	1711.4	1711.4	1711.4	1711.4	1712.0	1713.2	1714.3	1715.4	1716.6
172.5°	1719.9	1717.6	1717.4	1717.2	1716.9	1716.7	1717.3	1718.6	1720.0	1721.4	1722.8
175°	1727.6	1725.6	1725.3	1725.0	1724.7	1724.4	1725.0	1726.4	1727.9	1729.3	1730.7
177.5°	1730.5	1728.7	1728.4	1728.2	1728.0	1727.8	1728.2	1729.4	1730.5	1731.6	1732.8
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332108

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	483.8	484.8	487.9	490.2	492.8	494.3	495.7	496.9	498.4	498.7	504.1
5°	486.0	490.6	498.8	504.8	512.3	520.4	526.0	528.6	535.4	540.9	552.1
7.5°	485.4	495.3	507.6	520.4	534.0	546.7	557.7	570.8	580.0	594.0	607.7
10°	484.8	498.1	513.9	530.2	549.3	567.0	582.9	600.6	615.3	634.6	651.1
12.5°	483.1	499.2	521.2	540.5	563.7	588.1	611.6	634.3	647.3	679.5	694.7
15°	479.0	498.1	525.6	554.9	586.8	615.7	645.5	669.3	707.7	735.9	753.9
17.5°	471.1	497.8	530.4	565.8	604.6	642.7	676.5	712.5	753.3	787.4	823.8
20°	467.3	496.7	533.0	572.2	612.5	655.6	694.0	737.3	781.8	815.4	862.0
22.5°	460.4	493.7	532.8	576.4	619.5	664.1	709.1	752.8	804.2	850.4	894.8
25°	449.2	486.4	527.0	575.7	626.2	670.9	724.8	782.8	836.3	895.8	940.0
27.5°	437.3	477.1	517.7	563.0	617.4	670.5	738.2	803.7	869.2	920.5	953.3
30°	428.2	466.9	508.8	554.5	608.3	671.4	747.1	818.6	882.5	926.5	944.9
32.5°	418.3	457.5	494.6	542.5	599.9	670.8	752.7	827.4	883.2	912.5	908.9
35°	402.8	435.6	471.8	517.9	585.4	666.7	756.0	828.2	862.4	856.1	808.6
37.5°	380.4	408.1	443.6	494.1	568.7	658.1	749.4	803.6	801.4	750.2	681.3
40°	366.5	390.0	424.2	477.3	555.6	652.5	739.2	774.4	744.6	673.0	590.6
42.5°	348.2	369.9	404.1	458.7	541.3	641.2	719.6	729.8	671.5	589.2	513.6
45°	319.9	339.0	374.4	430.8	519.7	616.4	671.9	646.9	568.4	483.4	425.9
47.5°	289.4	309.3	343.3	401.3	488.6	579.2	605.6	552.6	472.0	403.0	350.2
50°	270.2	289.3	322.7	381.1	467.6	548.6	559.6	491.1	417.0	356.4	313.1
52.5°	250.9	268.8	301.6	360.3	443.0	513.2	506.5	436.7	368.6	316.9	282.9
55°	222.0	239.0	270.2	325.2	400.5	456.1	431.7	365.1	308.7	268.6	242.7
57.5°	196.2	212.5	239.4	289.1	354.5	392.8	361.7	305.5	260.7	229.8	210.6
60°	178.7	193.1	218.8	264.9	321.7	350.8	320.1	270.5	232.7	208.0	190.8
62.5°	162.1	174.7	198.4	240.3	289.7	314.1	283.0	241.0	208.9	187.0	172.3
65°	137.0	148.4	169.4	202.0	242.5	258.8	232.0	198.0	173.1	156.8	147.0
67.5°	114.1	123.8	141.9	167.5	197.4	209.2	188.8	162.5	143.7	130.6	122.9
70°	98.8	107.2	121.4	143.5	170.5	179.6	160.5	138.8	125.1	114.6	107.4
72.5°	85.9	92.1	105.0	122.1	144.6	151.8	138.5	119.5	106.7	98.8	93.0
75°	65.5	70.6	79.0	92.7	108.3	112.5	102.5	90.6	82.0	76.4	72.0
77.5°	47.2	51.0	57.0	65.5	76.3	80.1	73.8	65.8	59.5	55.8	53.3
80°	35.6	38.7	43.8	50.8	57.3	59.4	55.7	49.6	45.2	43.1	41.0
82.5°	26.3	28.0	31.1	35.9	40.3	42.8	39.7	36.0	33.6	31.7	30.9
85°	13.3	14.2	15.6	17.5	20.3	21.2	20.0	19.1	17.7	16.5	16.5
87.5°	5.7	6.2	7.4	8.3	9.7	11.0	11.6	12.0	12.5	12.6	12.6
90°	4.1	7.0	9.9	12.7	16.0	19.7	23.4	27.1	30.9	32.0	33.1
92.5°	23.1	22.3	21.5	20.7	21.7	24.5	27.3	30.1	32.9	34.7	36.6
95°	66.7	55.0	43.3	31.6	27.3	30.4	33.6	36.7	39.9	41.9	43.9
97.5°	152.4	147.1	141.9	136.6	123.7	103.1	82.6	62.0	41.4	43.7	46.0
100°	223.0	228.7	234.4	240.2	220.7	176.2	131.6	87.0	42.4	44.7	47.0
102.5°	289.3	293.4	297.5	301.7	279.4	230.7	182.0	133.3	84.6	77.5	70.4
105°	386.3	389.5	392.6	395.7	384.5	358.7	333.0	307.3	281.6	231.0	180.4
107.5°	489.1	491.6	494.1	496.6	499.9	504.0	508.0	512.1	516.1	479.0	442.0
110°	557.8	560.0	562.3	564.6	567.3	570.5	573.6	576.8	579.9	570.5	561.0





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	623.4	625.4	627.5	629.5	632.1	635.3	638.4	641.6	644.7	644.9	645.1
115°	720.5	722.2	723.9	725.6	727.8	730.3	732.9	735.5	738.1	740.9	743.8
117.5°	815.3	817.4	819.5	821.6	823.3	824.6	826.0	827.3	828.6	830.9	833.2
120°	874.4	876.9	879.5	882.1	883.8	884.6	885.5	886.4	887.2	889.5	891.8
122.5°	933.6	935.7	937.8	939.9	941.5	942.6	943.7	944.8	945.9	947.5	949.1
125°	1015.5	1017.8	1020.1	1022.4	1024.1	1025.2	1026.4	1027.5	1028.7	1029.2	1029.8
127.5°	1094.7	1097.0	1099.3	1101.6	1103.4	1104.8	1106.2	1107.5	1108.9	1109.8	1110.7
130°	1144.1	1146.4	1148.7	1151.0	1152.7	1153.8	1155.0	1156.1	1157.2	1158.4	1159.5
132.5°	1191.4	1193.7	1196.0	1198.3	1199.9	1200.8	1201.7	1202.6	1203.5	1204.7	1205.8
135°	1263.1	1264.8	1266.5	1268.3	1269.7	1270.8	1272.0	1273.1	1274.3	1275.1	1276.0
137.5°	1325.3	1327.5	1329.6	1331.8	1333.2	1333.8	1334.5	1335.1	1335.7	1337.1	1338.5
140°	1366.0	1367.7	1369.4	1371.1	1372.4	1373.3	1374.1	1375.0	1375.8	1377.0	1378.1
142.5°	1404.0	1405.8	1407.5	1409.2	1410.5	1411.3	1412.2	1413.0	1413.9	1414.8	1415.7
145°	1457.6	1459.6	1461.6	1463.6	1464.8	1465.4	1466.0	1466.6	1467.1	1467.7	1468.3
147.5°	1507.0	1508.3	1509.6	1511.0	1511.9	1512.5	1513.0	1513.6	1514.2	1514.8	1515.3
150°	1537.4	1538.3	1539.1	1540.0	1540.7	1541.3	1541.8	1542.4	1543.0	1543.6	1544.1
152.5°	1564.7	1565.1	1565.5	1565.9	1566.3	1566.7	1567.0	1567.3	1567.7	1568.7	1569.7
155°	1602.9	1602.3	1601.7	1601.1	1601.0	1601.3	1601.6	1601.9	1602.1	1603.6	1605.0
157.5°	1633.7	1633.7	1633.6	1633.5	1633.4	1633.1	1632.8	1632.5	1632.2	1633.9	1635.7
160°	1652.0	1651.7	1651.4	1651.1	1650.9	1650.6	1650.3	1650.0	1649.7	1651.4	1653.1
162.5°	1669.0	1668.3	1667.5	1666.8	1666.3	1666.0	1665.7	1665.4	1665.1	1667.1	1669.0
165°	1690.0	1689.1	1688.3	1687.4	1686.9	1686.6	1686.3	1686.0	1685.7	1688.0	1690.3
167.5°	1706.2	1705.0	1703.9	1702.7	1702.2	1702.2	1702.2	1702.2	1702.2	1704.5	1706.8
170°	1715.4	1714.3	1713.2	1712.0	1711.4	1711.4	1711.4	1711.4	1711.4	1713.7	1716.0
172.5°	1721.4	1720.0	1718.6	1717.3	1716.7	1716.9	1717.2	1717.4	1717.6	1719.9	1722.2
175°	1729.3	1727.9	1726.4	1725.0	1724.4	1724.7	1725.0	1725.3	1725.6	1727.6	1729.6
177.5°	1731.6	1730.5	1729.4	1728.2	1727.8	1728.0	1728.2	1728.4	1728.7	1730.5	1732.3
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	506.0	506.2	508.2	509.7	509.0	509.9	510.3
5°	552.8	561.2	565.6	568.9	569.1	569.4	571.2
7.5°	619.2	628.2	634.8	644.8	647.7	651.1	650.2
10°	667.7	681.0	692.4	698.4	705.0	714.5	706.8
12.5°	713.0	736.5	753.9	763.3	769.4	771.3	767.6
15°	787.7	818.4	834.9	834.5	855.4	864.5	850.3
17.5°	856.1	884.5	907.3	918.9	936.4	940.2	938.5
20°	898.1	929.1	946.8	966.8	975.9	984.0	985.4
22.5°	934.2	962.1	981.1	997.7	1005.3	1009.2	1011.5
25°	971.5	993.4	1004.8	1010.6	1012.7	1012.2	1009.2
27.5°	968.9	970.6	958.0	945.7	934.6	922.2	917.9
30°	943.7	924.2	889.2	869.4	840.3	817.2	826.6
32.5°	877.6	838.6	799.4	756.1	720.3	710.1	699.8
35°	749.0	680.5	640.4	593.8	575.2	556.6	543.7
37.5°	605.9	553.0	505.4	475.0	456.3	444.5	438.2
40°	523.9	476.2	437.0	412.3	398.1	384.9	383.0
42.5°	458.5	414.1	384.7	365.0	351.4	345.7	341.6
45°	375.5	344.6	324.8	310.8	301.7	298.2	293.5
47.5°	317.9	296.0	281.1	271.6	264.7	262.1	261.8
50°	285.6	267.4	256.5	249.0	243.7	242.7	239.0
52.5°	261.4	245.6	237.1	230.6	226.7	224.1	223.0
55°	226.9	216.4	208.7	205.0	202.0	199.4	199.4
57.5°	198.5	189.8	184.7	181.5	180.6	178.8	177.6
60°	181.0	173.6	169.6	166.8	164.9	165.2	163.1
62.5°	163.9	159.0	155.2	152.5	150.2	150.3	150.4
65°	139.5	135.8	133.0	132.1	130.7	129.1	129.5
67.5°	118.3	114.8	112.6	111.0	110.5	109.6	111.0
70°	103.0	100.4	98.8	97.4	96.9	97.1	98.3
72.5°	89.0	87.2	86.1	85.5	84.4	84.5	85.3
75°	69.9	68.5	67.6	66.9	66.6	66.6	66.6
77.5°	51.3	51.0	50.6	49.6	49.6	49.9	49.9
80°	40.5	39.8	39.6	39.1	38.4	38.0	39.1
82.5°	30.3	29.6	29.4	29.3	28.2	28.1	29.1
85°	16.3	15.6	15.8	15.6	15.6	15.4	15.4
87.5°	12.6	12.7	12.7	13.0	12.9	12.8	13.3
90°	34.3	35.4	36.3	36.9	37.4	38.0	38.6
92.5°	38.4	40.2	41.3	41.7	42.0	42.3	42.7
95°	45.9	47.9	48.9	48.9	48.9	48.9	48.9
97.5°	48.3	50.5	51.8	52.1	52.4	52.7	53.0
100°	49.3	51.6	52.9	53.1	53.4	53.7	54.0
102.5°	63.3	56.3	53.0	53.5	54.0	54.5	55.0
105°	129.9	79.3	54.3	54.9	55.4	56.0	56.6
107.5°	404.9	367.8	330.2	292.1	253.9	215.8	177.7
110°	551.6	542.2	517.0	476.2	435.3	394.5	353.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	645.2	645.4	641.2	632.5	623.9	615.3	606.7
115°	746.6	749.5	751.5	752.6	753.8	754.9	756.1
117.5°	835.4	837.7	839.0	839.2	839.4	839.7	839.9
120°	894.1	896.4	897.5	897.5	897.5	897.5	897.5
122.5°	950.7	952.3	953.2	953.4	953.6	953.9	954.1
125°	1030.4	1030.9	1031.5	1032.1	1032.7	1033.2	1033.8
127.5°	1111.6	1112.6	1112.7	1112.2	1111.6	1111.0	1110.4
130°	1160.7	1161.8	1162.1	1161.5	1161.0	1160.4	1159.8
132.5°	1207.0	1208.1	1208.3	1207.5	1206.7	1205.9	1205.1
135°	1276.8	1277.7	1277.7	1276.8	1276.0	1275.1	1274.3
137.5°	1339.8	1341.2	1341.6	1341.0	1340.5	1339.9	1339.3
140°	1379.3	1380.4	1380.7	1380.1	1379.5	1379.0	1378.4
142.5°	1416.6	1417.6	1417.6	1416.8	1416.0	1415.2	1414.4
145°	1468.8	1469.4	1469.7	1469.7	1469.7	1469.7	1469.7
147.5°	1515.9	1516.5	1516.1	1514.8	1513.5	1512.2	1510.8
150°	1544.7	1545.3	1545.1	1544.3	1543.4	1542.6	1541.7
152.5°	1570.8	1571.8	1571.7	1570.3	1569.0	1567.7	1566.4
155°	1606.4	1607.9	1607.7	1606.0	1604.3	1602.6	1600.9
157.5°	1637.4	1639.1	1638.8	1636.6	1634.4	1632.1	1629.9
160°	1654.9	1656.6	1656.4	1654.4	1652.4	1650.4	1648.4
162.5°	1671.0	1672.9	1673.0	1671.2	1669.5	1667.7	1665.9
165°	1692.6	1694.9	1695.0	1693.0	1691.0	1689.0	1687.0
167.5°	1709.0	1711.3	1711.3	1709.0	1706.8	1704.5	1702.2
170°	1718.3	1720.6	1720.6	1718.3	1716.0	1713.7	1711.4
172.5°	1724.5	1726.8	1726.6	1724.1	1721.6	1719.1	1716.6
175°	1731.6	1733.6	1733.4	1731.2	1728.9	1726.6	1724.3
177.5°	1734.2	1736.0	1735.8	1733.5	1731.2	1728.9	1726.6
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7

(END OF REPORT)