

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: P332733-830

Luminaire Tested: **S124DIW-S350D1340U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332733-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S350D1340U830-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1340 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6546.5 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

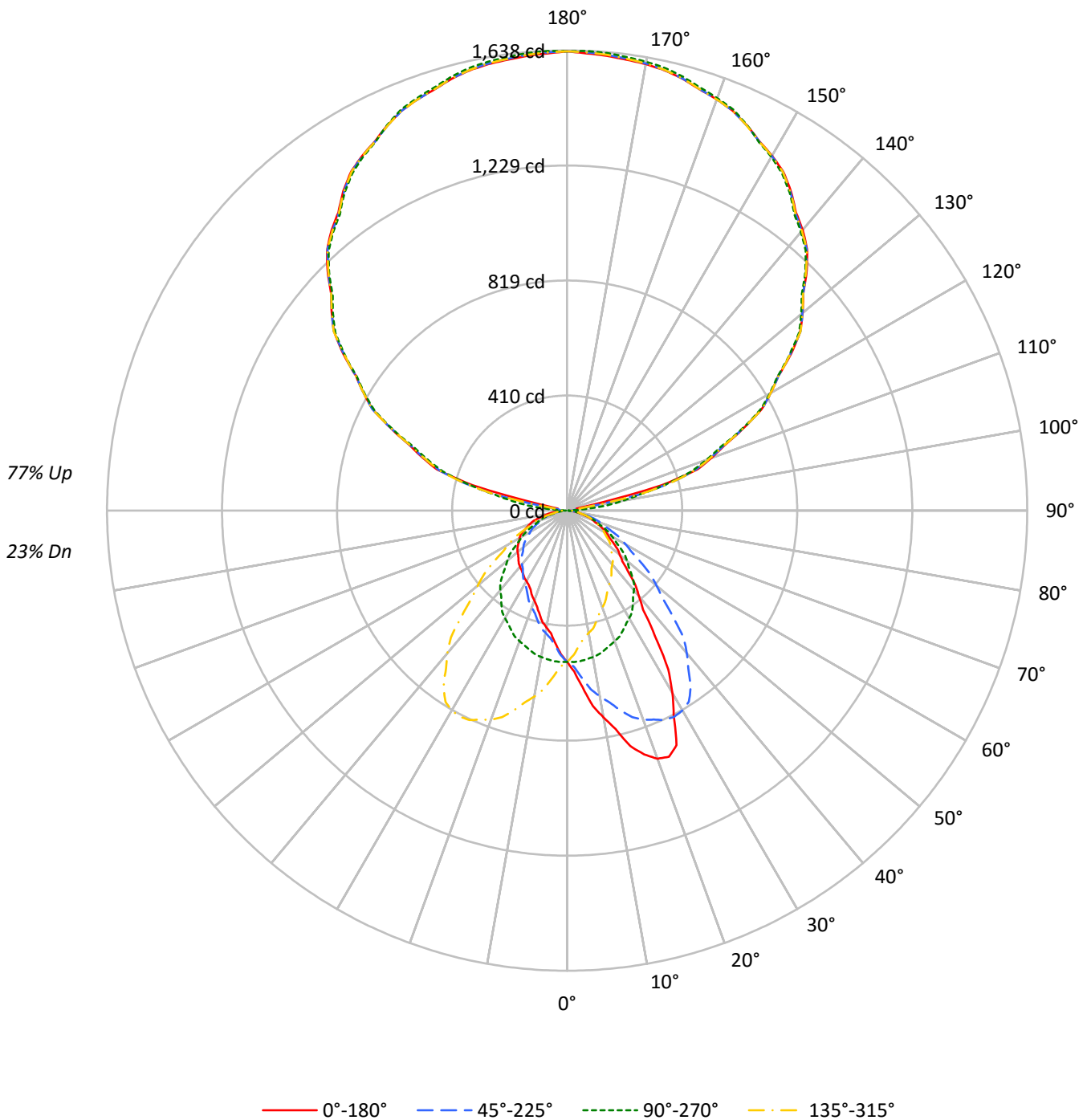
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	26	19
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	24	23	22	16
3	76	67	60	55	67	60	54	50	46	42	39	33	31	29	22	20	19	14
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	40	56	47	41	36	37	32	29	27	24	21	17	16	14	11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	9
7	54	43	35	30	48	38	32	27	30	25	22	22	19	16	14	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	13	11	10	7
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9	7
10	43	32	25	20	38	29	23	19	23	18	15	17	14	12	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4347	4347	4347	4347
5°	5119	4358	3847	4358
10°	6129	4339	3463	4339
15°	7252	4296	3181	4296
20°	8076	4250	2928	4250
25°	8206	4185	2754	4185
30°	6982	4121	2699	4121
35°	5368	4018	2699	4018
40°	4185	3898	2751	3898
45°	3489	3716	2797	3716
50°	3071	3493	2891	3493
55°	2814	3227	3008	3227
60°	2635	2989	3147	2989
65°	2455	2722	3265	2722
70°	2242	2460	3338	2460
75°	2006	2165	3300	2165
80°	1678	1776	3194	1776
85°	1241	1288	3057	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	0.8
10°-20°	161.7	2.5
20°-30°	256.4	3.9
30°-40°	285.4	4.4
40°-50°	259.8	4.0
50°-60°	212.3	3.2
60°-70°	151.5	2.3
70°-80°	83.4	1.3
80°-90°	27.5	0.4
90°-100°	55.9	0.9
100°-110°	356.4	5.4
110°-120°	681.9	10.4
120°-130°	865.6	13.2
130°-140°	926.1	14.1
140°-150°	866.0	13.2
150°-160°	698.4	10.7
160°-170°	450.5	6.9
170°-180°	155.3	2.4
0°-30°	470.6	7.2
0°-40°	755.9	11.5
0°-60°	1227.9	18.8
0°-90°	1490.4	22.8
90°-120°	1094.2	16.7
90°-150°	3752.0	57.3
90°-180°	5056.0	77.2
0°-180°	6546.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	538	538	538	538	538	
5°	632	538	475	538	632	64
15°	868	514	381	514	868	245
25°	921	470	309	470	921	406
35°	545	408	274	408	545	346
45°	306	326	245	326	306	241
55°	200	229	214	229	200	181
65°	128	142	171	142	128	127
75°	64	69	106	69	64	68
85°	13	14	33	14	13	17
90°	37	4	37	4	37	16
95°	35	67	35	67	35	28
105°	348	368	348	368	348	304
115°	692	687	692	687	692	685
125°	973	966	973	966	973	867
135°	1207	1198	1207	1198	1207	929
145°	1389	1382	1389	1382	1389	868
155°	1514	1515	1514	1515	1514	698
165°	1590	1598	1590	1598	1590	449
175°	1625	1635	1625	1635	1625	155
180°	1635	1635	1635	1635	1635	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	573.1	573.0	571.2	570.8	569.6	568.0	567.6	564.7	559.0	556.3	555.6
5°	631.7	636.2	630.4	629.2	628.6	621.2	617.5	613.0	602.8	596.7	592.0
7.5°	701.7	702.2	699.6	697.7	691.9	685.5	675.9	665.6	653.4	640.7	631.1
10°	747.7	749.5	746.6	746.2	734.8	727.6	713.4	701.3	687.5	672.1	658.1
12.5°	796.3	793.8	792.3	782.8	780.6	767.6	751.0	738.7	717.3	699.6	680.9
15°	867.7	862.8	859.7	846.6	840.1	822.0	804.4	790.8	762.9	736.3	716.2
17.5°	909.6	914.5	907.4	901.9	885.2	872.5	854.5	826.0	804.2	771.2	745.8
20°	940.0	940.5	936.4	930.9	917.8	901.6	882.0	850.8	824.7	791.9	757.1
22.5°	948.2	948.3	946.6	941.4	931.4	918.4	898.6	872.5	840.9	805.3	770.4
25°	921.2	920.4	922.4	928.2	924.4	920.4	909.0	889.6	860.2	822.5	784.9
27.5°	821.1	827.4	838.7	852.9	866.7	877.1	880.1	876.1	857.9	826.9	787.6
30°	749.0	756.7	765.2	779.4	807.1	822.9	840.3	853.5	846.1	821.3	784.8
32.5°	669.9	671.8	684.3	700.5	725.9	756.3	783.9	810.7	819.5	806.5	776.0
35°	544.7	547.9	561.5	577.5	608.5	645.8	687.3	724.3	754.9	767.1	751.5
37.5°	444.5	453.5	463.1	480.3	507.7	541.2	584.3	632.3	677.8	708.3	713.5
40°	397.1	402.7	409.5	422.7	445.9	478.9	515.9	570.8	619.3	663.0	677.2
42.5°	359.6	362.9	367.1	379.0	396.6	429.5	463.4	511.6	560.2	612.5	636.4
45°	305.6	309.0	316.1	323.0	336.4	359.1	390.6	430.3	479.2	529.5	573.7
47.5°	266.6	268.7	273.0	280.4	291.8	306.8	332.3	365.5	410.8	459.8	506.8
50°	244.5	246.3	249.6	256.3	265.0	278.4	299.4	330.4	365.8	415.1	461.3
52.5°	227.0	227.7	230.2	234.7	241.7	252.9	270.1	295.8	328.8	372.7	418.7
55°	199.9	200.8	203.0	206.3	212.4	219.5	232.6	251.8	280.6	318.8	358.7
57.5°	177.6	178.2	180.0	181.3	186.3	192.1	202.3	215.9	237.7	270.1	305.8
60°	163.2	162.9	165.0	166.2	169.6	174.5	182.3	195.4	214.3	240.4	273.2
62.5°	149.4	148.7	150.6	152.1	154.0	158.2	164.6	174.8	190.3	213.9	242.2
65°	128.5	127.6	128.8	130.5	132.2	134.5	139.2	148.4	160.6	177.6	199.2
67.5°	107.5	108.5	108.7	109.5	110.6	113.6	116.8	123.3	132.0	145.5	163.8
70°	95.0	95.3	96.1	96.1	96.8	99.5	102.2	105.9	114.4	127.0	141.9
72.5°	82.6	83.5	83.1	83.8	84.4	86.1	88.0	91.7	98.9	108.2	120.8
75°	64.3	64.9	64.9	65.1	65.8	66.4	68.1	70.7	75.9	82.8	91.4
77.5°	46.8	46.9	47.2	48.1	48.1	49.1	50.2	52.4	55.0	59.7	65.0
80°	36.1	36.6	36.4	36.9	36.9	37.7	38.2	40.8	41.9	45.1	49.3
82.5°	26.5	27.0	26.9	27.5	27.9	28.1	28.7	29.8	30.9	33.6	35.3
85°	13.4	13.9	13.4	13.9	14.5	14.7	15.4	15.6	16.5	17.2	18.8
87.5°	11.2	11.7	11.6	11.7	11.9	11.9	11.7	11.2	11.6	11.4	11.7
90°	36.7	36.1	35.6	35.1	34.5	33.5	31.8	30.2	28.6	26.9	24.7
92.5°	33.7	33.6	33.6	33.5	33.3	32.4	30.8	29.2	27.5	25.9	23.8
95°	35.4	35.2	34.9	34.6	34.4	33.5	31.8	30.2	28.6	26.9	26.6
97.5°	34.2	33.9	33.6	33.5	33.2	32.9	32.8	32.6	32.4	32.2	62.6
100°	34.2	33.9	33.6	33.5	33.2	35.3	40.0	44.6	49.2	53.8	91.2
102.5°	35.3	35.2	35.1	35.1	35.0	59.9	109.7	159.6	209.3	259.2	264.1
105°	348.5	358.2	368.0	377.8	387.6	391.2	388.8	386.3	383.9	381.4	380.0
107.5°	485.6	484.6	483.5	482.5	481.5	480.3	479.2	478.0	476.7	475.6	473.7
110°	545.3	544.4	543.7	542.8	542.0	541.3	540.7	540.3	539.7	539.1	537.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	604.9	603.9	602.9	601.8	600.8	600.3	600.4	600.5	600.7	600.8	600.0
115°	691.9	691.9	691.9	691.9	691.9	691.6	691.2	690.6	690.0	689.5	689.8
117.5°	780.4	780.6	780.7	780.8	780.9	781.0	781.1	781.2	781.4	781.5	780.8
120°	836.2	836.8	837.3	837.8	838.4	838.4	837.8	837.3	836.8	836.2	836.5
122.5°	891.0	891.6	892.0	892.6	893.2	893.2	893.0	892.6	892.3	891.9	891.6
125°	973.2	972.9	972.6	972.3	972.0	971.5	970.7	969.9	969.0	968.3	968.7
127.5°	1045.3	1045.5	1045.7	1045.9	1046.1	1046.3	1046.5	1046.7	1046.8	1047.0	1045.8
130°	1094.2	1094.2	1094.2	1094.2	1094.2	1094.0	1093.7	1093.4	1093.3	1093.0	1092.1
132.5°	1139.2	1139.3	1139.6	1139.8	1140.0	1140.0	1139.7	1139.4	1139.2	1138.9	1137.8
135°	1206.6	1206.1	1205.5	1205.0	1204.5	1203.9	1203.3	1202.9	1202.3	1201.7	1200.7
137.5°	1264.3	1264.5	1264.7	1264.8	1265.0	1264.8	1264.1	1263.6	1263.0	1262.3	1261.2
140°	1304.5	1304.2	1303.9	1303.6	1303.3	1302.8	1302.0	1301.2	1300.3	1299.6	1299.0
142.5°	1337.7	1337.7	1337.6	1337.6	1337.5	1337.2	1336.5	1336.0	1335.4	1334.7	1334.5
145°	1388.8	1388.3	1387.7	1387.1	1386.7	1386.2	1385.9	1385.6	1385.4	1385.2	1385.2
147.5°	1431.1	1430.8	1430.6	1430.3	1430.0	1429.7	1429.6	1429.4	1429.1	1428.9	1429.2
150°	1458.5	1458.2	1457.9	1457.6	1457.4	1457.3	1457.3	1457.3	1457.3	1457.3	1457.5
152.5°	1482.0	1482.1	1482.2	1482.4	1482.6	1482.4	1482.1	1481.6	1481.2	1480.7	1481.2
155°	1513.5	1514.3	1515.1	1516.0	1516.7	1516.6	1515.5	1514.5	1513.3	1512.3	1513.1
157.5°	1539.9	1541.3	1542.8	1544.2	1545.6	1545.6	1544.2	1542.8	1541.3	1539.9	1540.9
160°	1557.6	1559.2	1560.8	1562.4	1564.1	1564.1	1562.4	1560.8	1559.2	1557.6	1557.7
162.5°	1571.2	1573.0	1574.9	1576.8	1578.6	1578.7	1577.1	1575.5	1573.8	1572.2	1572.4
165°	1590.5	1593.0	1595.4	1597.9	1600.2	1600.4	1598.3	1596.1	1593.9	1591.8	1591.8
167.5°	1605.0	1607.7	1610.3	1613.1	1615.8	1616.0	1613.5	1611.2	1608.8	1606.4	1606.6
170°	1613.7	1616.5	1619.2	1621.9	1624.6	1624.8	1622.7	1620.5	1618.3	1616.2	1615.9
172.5°	1618.6	1621.6	1624.5	1627.4	1630.4	1630.8	1628.6	1626.4	1624.2	1622.0	1621.7
175°	1624.8	1628.0	1631.3	1634.6	1637.8	1638.2	1635.8	1633.3	1630.9	1628.4	1628.1
177.5°	1628.6	1631.3	1633.9	1636.4	1639.1	1639.6	1637.8	1636.1	1634.3	1632.6	1632.1
180°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	555.8	553.3	551.5	550.1	546.2	543.8	542.1	539.6	536.7	533.7	529.9
5°	587.3	579.8	574.2	565.7	557.7	551.0	544.0	537.8	530.3	522.0	515.9
7.5°	620.5	609.2	594.7	582.2	568.1	555.8	544.9	533.7	522.0	510.6	500.2
10°	641.6	627.1	611.0	592.0	574.2	558.4	543.7	529.3	515.5	501.7	489.8
12.5°	664.2	646.1	622.4	600.2	580.2	559.0	541.3	523.8	507.1	492.6	478.8
15°	694.7	668.5	641.1	611.4	585.1	560.3	536.0	514.0	495.2	476.0	462.6
17.5°	713.3	681.0	649.7	618.7	586.8	555.5	529.3	503.9	480.4	461.4	444.5
20°	725.7	693.5	654.5	623.5	585.6	553.5	523.1	494.7	470.2	450.0	432.5
22.5°	736.3	699.3	660.2	619.3	581.6	547.5	514.3	485.9	460.8	439.4	422.7
25°	742.2	699.6	657.1	616.5	573.7	533.4	503.2	469.8	443.0	420.5	402.7
27.5°	742.8	697.2	649.2	604.2	560.0	522.4	484.4	454.4	426.7	402.8	385.7
30°	740.8	693.3	641.8	593.0	548.6	507.7	474.7	442.1	413.8	390.1	372.3
32.5°	734.5	685.1	632.2	580.4	534.4	494.5	460.4	429.4	401.8	378.5	359.8
35°	716.5	667.6	611.2	557.4	510.4	470.0	439.2	407.7	380.1	358.1	340.0
37.5°	688.2	644.1	586.7	531.1	484.8	444.3	413.8	385.4	360.4	338.0	319.5
40°	663.6	624.8	567.2	513.0	463.1	424.5	396.0	369.9	345.1	323.9	306.2
42.5°	635.3	601.4	548.4	491.0	442.7	404.0	376.2	352.7	329.4	309.8	292.2
45°	584.7	562.3	512.4	459.3	409.1	372.5	346.0	325.5	305.9	286.6	271.9
47.5°	526.5	515.4	473.3	422.9	375.3	339.2	316.2	297.3	280.0	263.8	250.8
50°	487.4	482.0	445.7	397.1	351.6	317.6	294.5	278.1	263.4	249.2	236.9
52.5°	448.8	448.7	415.8	371.4	329.2	296.6	273.5	258.4	245.6	234.0	223.0
55°	389.9	396.2	370.5	330.8	293.1	263.6	242.9	229.3	220.4	210.8	202.6
57.5°	335.8	346.2	325.0	290.0	258.5	231.5	213.4	203.2	193.7	187.8	181.8
60°	300.5	310.3	293.8	264.4	234.7	211.5	194.3	185.1	176.9	172.9	168.6
62.5°	269.1	277.8	265.6	238.3	212.5	190.2	175.7	166.9	161.4	157.0	154.2
65°	224.2	231.6	221.0	201.2	179.1	161.3	149.5	142.5	137.2	135.4	132.2
67.5°	181.3	187.9	182.3	165.4	147.7	134.1	124.9	118.3	115.1	113.6	111.3
70°	155.7	162.4	156.4	141.7	128.0	116.7	107.9	104.2	100.9	100.2	97.1
72.5°	134.1	138.6	132.6	121.1	109.5	99.9	93.1	89.2	87.5	86.2	84.5
75°	100.6	104.6	100.6	91.7	83.4	76.7	71.0	69.4	67.4	66.7	65.6
77.5°	71.2	74.6	71.6	66.1	59.9	54.7	51.6	49.6	49.1	48.0	48.5
80°	54.4	56.6	53.7	50.0	45.1	41.5	39.3	38.2	36.9	36.4	37.2
82.5°	39.1	40.1	38.5	36.0	32.4	30.1	28.6	27.2	27.0	27.1	27.1
85°	20.3	20.1	19.9	17.6	16.5	15.0	14.0	13.9	13.6	14.0	14.5
87.5°	11.3	11.0	10.5	9.2	8.0	6.9	6.1	5.4	6.1	6.9	7.7
90°	22.5	20.4	18.2	15.6	12.6	9.6	6.7	3.7	6.7	9.6	12.6
92.5°	21.6	19.4	17.2	16.0	15.9	15.7	15.6	15.4	15.6	15.7	15.9
95°	26.4	26.1	25.8	30.3	39.5	48.7	58.0	67.2	58.0	48.7	39.5
97.5°	92.9	123.2	153.5	165.8	160.0	154.3	148.5	142.8	148.5	154.3	160.0
100°	128.8	166.3	203.8	220.1	215.2	210.3	205.4	200.5	205.4	210.3	215.2
102.5°	269.0	273.8	278.7	279.4	275.8	272.2	268.6	265.0	268.6	272.2	275.8
105°	378.7	377.4	376.0	374.5	372.9	371.3	369.6	368.0	369.6	371.3	372.9
107.5°	471.8	470.0	468.2	466.8	466.0	465.2	464.4	463.5	464.4	465.2	466.0
110°	535.8	534.2	532.6	531.4	530.6	529.8	529.0	528.1	529.0	529.8	530.6



TEST NUMBER: P332733-830

CATALOG NUMBER: S124DIW-S350D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	599.3	598.5	597.7	596.6	595.1	593.7	592.2	590.7	592.2	593.7	595.1
115°	690.0	690.3	690.6	690.3	689.5	688.7	687.9	687.0	687.9	688.7	689.5
117.5°	780.2	779.7	779.0	778.2	777.1	776.0	775.0	773.8	775.0	776.0	777.1
120°	836.8	837.1	837.3	836.9	835.8	834.7	833.6	832.5	833.6	834.7	835.8
122.5°	891.2	890.8	890.4	889.9	889.3	888.6	888.0	887.3	888.0	888.6	889.3
125°	969.3	969.9	970.4	970.2	969.0	968.0	966.9	965.8	966.9	968.0	969.0
127.5°	1044.4	1043.2	1042.0	1041.2	1040.9	1040.7	1040.4	1040.1	1040.4	1040.7	1040.9
130°	1091.3	1090.5	1089.7	1089.1	1088.8	1088.6	1088.4	1088.1	1088.4	1088.6	1088.8
132.5°	1136.8	1135.9	1134.8	1134.0	1133.5	1133.0	1132.6	1132.1	1132.6	1133.0	1133.5
135°	1199.6	1198.4	1197.4	1197.0	1197.3	1197.5	1197.8	1198.1	1197.8	1197.5	1197.3
137.5°	1260.0	1258.8	1257.6	1257.0	1256.9	1256.7	1256.6	1256.5	1256.6	1256.7	1256.9
140°	1298.4	1297.9	1297.4	1296.8	1296.3	1295.7	1295.2	1294.7	1295.2	1295.7	1296.3
142.5°	1334.1	1333.8	1333.4	1332.8	1331.8	1330.9	1329.8	1328.9	1329.8	1330.9	1331.8
145°	1385.2	1385.2	1385.2	1384.7	1383.9	1383.1	1382.2	1381.5	1382.2	1383.1	1383.9
147.5°	1429.5	1429.7	1430.0	1429.4	1427.9	1426.3	1424.7	1423.2	1424.7	1426.3	1427.9
150°	1457.8	1458.1	1458.3	1457.9	1456.9	1455.8	1454.7	1453.6	1454.7	1455.8	1456.9
152.5°	1481.7	1482.2	1482.7	1482.5	1481.6	1480.7	1479.9	1479.0	1479.9	1480.7	1481.6
155°	1513.9	1514.8	1515.5	1515.8	1515.5	1515.2	1514.9	1514.8	1514.9	1515.2	1515.5
157.5°	1541.7	1542.7	1543.6	1544.2	1544.3	1544.5	1544.6	1544.8	1544.6	1544.5	1544.3
160°	1558.0	1558.3	1558.6	1559.2	1559.9	1560.8	1561.6	1562.4	1561.6	1560.8	1559.9
162.5°	1572.7	1573.0	1573.3	1574.0	1575.0	1576.0	1577.0	1578.0	1577.0	1576.0	1575.0
165°	1591.8	1591.8	1591.8	1592.4	1593.7	1595.2	1596.5	1597.9	1596.5	1595.2	1593.7
167.5°	1606.8	1606.9	1607.0	1607.9	1609.3	1610.7	1612.1	1613.5	1612.1	1610.7	1609.3
170°	1615.6	1615.3	1615.1	1615.8	1617.4	1619.0	1620.7	1622.3	1620.7	1619.0	1617.4
172.5°	1621.6	1621.3	1621.0	1621.6	1623.2	1624.9	1626.5	1628.1	1626.5	1624.9	1623.2
175°	1627.9	1627.6	1627.3	1628.0	1629.7	1631.3	1632.9	1634.6	1632.9	1631.3	1629.7
177.5°	1631.7	1631.3	1630.8	1631.4	1632.9	1634.4	1636.0	1637.5	1636.0	1634.4	1632.9
180°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6



TEST NUMBER: P332733-830

CATALOG NUMBER: S124DIW-S350D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	528.1	526.5	524.2	521.0	518.3	515.5	514.7	513.7	515.9	514.1	513.5
5°	510.9	506.1	500.1	493.2	489.2	483.4	482.3	480.0	477.8	477.6	475.3
7.5°	492.5	485.6	477.7	470.7	464.2	457.8	453.6	452.8	449.5	447.5	445.4
10°	480.7	472.2	463.1	456.4	448.8	442.1	437.4	434.8	432.5	430.1	427.8
12.5°	466.8	457.8	450.3	443.0	434.0	429.0	421.2	416.6	416.1	416.1	410.4
15°	450.6	441.7	430.1	419.8	414.9	405.1	400.9	395.5	392.2	388.8	386.2
17.5°	432.1	420.9	411.9	400.1	390.8	383.0	377.4	374.2	369.1	364.4	361.0
20°	420.5	408.7	399.1	386.5	376.4	366.7	362.0	357.6	353.8	349.8	346.0
22.5°	408.7	396.3	384.7	372.5	363.0	352.8	348.3	342.2	338.7	336.4	332.6
25°	390.1	376.7	363.4	351.8	342.0	333.0	327.1	322.3	318.3	316.5	314.1
27.5°	369.9	356.7	343.7	330.5	319.4	312.9	308.1	304.6	302.3	299.9	298.8
30°	357.1	343.3	329.5	317.2	307.0	300.5	296.1	293.6	291.8	290.7	289.5
32.5°	344.1	330.5	315.9	304.7	295.5	289.7	286.3	283.9	283.0	282.7	282.2
35°	323.2	309.4	296.1	286.0	277.3	275.0	272.1	270.8	270.3	271.9	272.6
37.5°	303.0	290.2	277.9	268.2	262.4	259.2	258.2	258.3	259.9	261.2	262.8
40°	290.0	277.5	265.9	257.4	252.0	250.1	249.6	250.7	252.5	254.1	255.9
42.5°	277.3	265.0	254.5	246.6	242.8	240.9	241.2	242.3	244.9	246.8	249.4
45°	257.7	247.4	237.1	230.6	227.5	228.0	228.0	230.0	232.4	235.4	238.3
47.5°	239.1	228.8	220.4	214.9	213.3	212.9	214.1	216.8	220.3	223.9	227.9
50°	226.7	216.8	209.4	204.5	202.7	203.4	205.2	207.6	211.9	216.4	220.6
52.5°	214.0	205.0	198.2	193.7	192.4	193.6	195.4	199.3	203.0	207.8	212.9
55°	194.3	186.7	181.3	178.0	177.6	178.2	180.2	184.5	189.8	195.9	200.8
57.5°	174.7	168.3	163.4	161.2	161.4	162.0	165.3	170.3	176.1	182.5	188.8
60°	161.5	155.7	151.7	149.9	150.1	151.5	155.5	160.1	167.3	173.5	180.2
62.5°	149.0	143.9	140.1	138.5	138.2	141.1	145.0	149.8	156.9	163.9	171.2
65°	128.9	124.9	121.8	120.9	121.6	123.9	128.8	135.2	141.2	148.5	156.2
67.5°	109.3	106.0	103.9	104.2	105.1	108.4	112.4	118.0	124.9	132.5	140.0
70°	96.8	93.7	91.9	92.1	93.5	97.5	101.0	106.6	114.0	121.8	128.0
72.5°	84.0	81.9	80.3	81.2	82.6	85.3	89.8	95.4	101.9	109.1	115.7
75°	64.5	64.5	63.6	64.3	66.3	68.9	72.3	78.0	84.5	90.4	95.7
77.5°	47.8	47.3	47.9	48.7	49.9	53.1	56.9	61.1	65.9	71.7	76.2
80°	36.6	36.9	37.9	39.3	39.7	42.1	46.2	50.0	53.7	58.6	62.9
82.5°	27.5	27.7	28.3	30.0	30.4	33.1	35.6	39.4	42.9	46.2	49.7
85°	15.0	15.0	16.0	16.8	17.8	19.6	21.2	23.5	26.6	28.7	32.1
87.5°	8.9	9.3	10.5	11.3	12.3	13.6	14.2	16.6	17.6	18.9	20.6
90°	15.6	18.2	20.4	22.5	24.7	26.9	28.6	30.2	31.8	33.5	34.5
92.5°	16.0	17.2	19.4	21.6	23.8	25.9	27.5	29.2	30.8	32.4	33.3
95°	30.3	25.8	26.1	26.4	26.6	26.9	28.6	30.2	31.8	33.5	34.4
97.5°	165.8	153.5	123.2	92.9	62.6	32.2	32.4	32.6	32.8	32.9	33.2
100°	220.1	203.8	166.3	128.8	91.2	53.8	49.2	44.6	40.0	35.3	33.2
102.5°	279.4	278.7	273.8	269.0	264.1	259.2	209.3	159.6	109.7	59.9	35.0
105°	374.5	376.0	377.4	378.7	380.0	381.4	383.9	386.3	388.8	391.2	387.6
107.5°	466.8	468.2	470.0	471.8	473.7	475.6	476.7	478.0	479.2	480.3	481.5
110°	531.4	532.6	534.2	535.8	537.5	539.1	539.7	540.3	540.7	541.3	542.0



TEST NUMBER: P332733-830

CATALOG NUMBER: S124DIW-S350D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	596.6	597.7	598.5	599.3	600.0	600.8	600.7	600.5	600.4	600.3	600.8
115°	690.3	690.6	690.3	690.0	689.8	689.5	690.0	690.6	691.2	691.6	691.9
117.5°	778.2	779.0	779.7	780.2	780.8	781.5	781.4	781.2	781.1	781.0	780.9
120°	836.9	837.3	837.1	836.8	836.5	836.2	836.8	837.3	837.8	838.4	838.4
122.5°	889.9	890.4	890.8	891.2	891.6	891.9	892.3	892.6	893.0	893.2	893.2
125°	970.2	970.4	969.9	969.3	968.7	968.3	969.0	969.9	970.7	971.5	972.0
127.5°	1041.2	1042.0	1043.2	1044.4	1045.8	1047.0	1046.8	1046.7	1046.5	1046.3	1046.1
130°	1089.1	1089.7	1090.5	1091.3	1092.1	1093.0	1093.3	1093.4	1093.7	1094.0	1094.2
132.5°	1134.0	1134.8	1135.9	1136.8	1137.8	1138.9	1139.2	1139.4	1139.7	1140.0	1140.0
135°	1197.0	1197.4	1198.4	1199.6	1200.7	1201.7	1202.3	1202.9	1203.3	1203.9	1204.5
137.5°	1257.0	1257.6	1258.8	1260.0	1261.2	1262.3	1263.0	1263.6	1264.1	1264.8	1265.0
140°	1296.8	1297.4	1297.9	1298.4	1299.0	1299.6	1300.3	1301.2	1302.0	1302.8	1303.3
142.5°	1332.8	1333.4	1333.8	1334.1	1334.5	1334.7	1335.4	1336.0	1336.5	1337.2	1337.5
145°	1384.7	1385.2	1385.2	1385.2	1385.2	1385.2	1385.4	1385.6	1385.9	1386.2	1386.7
147.5°	1429.4	1430.0	1429.7	1429.5	1429.2	1428.9	1429.1	1429.4	1429.6	1429.7	1430.0
150°	1457.9	1458.3	1458.1	1457.8	1457.5	1457.3	1457.3	1457.3	1457.3	1457.3	1457.4
152.5°	1482.5	1482.7	1482.2	1481.7	1481.2	1480.7	1481.2	1481.6	1482.1	1482.4	1482.6
155°	1515.8	1515.5	1514.8	1513.9	1513.1	1512.3	1513.3	1514.5	1515.5	1516.6	1516.7
157.5°	1544.2	1543.6	1542.7	1541.7	1540.9	1539.9	1541.3	1542.8	1544.2	1545.6	1545.6
160°	1559.2	1558.6	1558.3	1558.0	1557.7	1557.6	1559.2	1560.8	1562.4	1564.1	1564.1
162.5°	1574.0	1573.3	1573.0	1572.7	1572.4	1572.2	1573.8	1575.5	1577.1	1578.7	1578.6
165°	1592.4	1591.8	1591.8	1591.8	1591.8	1591.8	1593.9	1596.1	1598.3	1600.4	1600.2
167.5°	1607.9	1607.0	1606.9	1606.8	1606.6	1606.4	1608.8	1611.2	1613.5	1616.0	1615.8
170°	1615.8	1615.1	1615.3	1615.6	1615.9	1616.2	1618.3	1620.5	1622.7	1624.8	1624.6
172.5°	1621.6	1621.0	1621.3	1621.6	1621.7	1622.0	1624.2	1626.4	1628.6	1630.8	1630.4
175°	1628.0	1627.3	1627.6	1627.9	1628.1	1628.4	1630.9	1633.3	1635.8	1638.2	1637.8
177.5°	1631.4	1630.8	1631.3	1631.7	1632.1	1632.6	1634.3	1636.1	1637.8	1639.6	1639.1
180°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6



TEST NUMBER: P332733-830

CATALOG NUMBER: S124DIW-S350D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	513.1	512.8	511.5	511.3	511.5	512.8	513.1	513.5	514.1	515.9	513.7
5°	474.0	472.9	472.2	474.7	472.2	472.9	474.0	475.3	477.6	477.8	480.0
7.5°	444.5	443.7	441.7	441.0	441.7	443.7	444.5	445.4	447.5	449.5	452.8
10°	425.7	424.7	422.9	422.4	422.9	424.7	425.7	427.8	430.1	432.5	434.8
12.5°	407.4	405.7	405.3	405.8	405.3	405.7	407.4	410.4	416.1	416.1	416.6
15°	383.2	382.3	379.8	380.6	379.8	382.3	383.2	386.2	388.8	392.2	395.5
17.5°	359.4	358.4	355.3	358.0	355.3	358.4	359.4	361.0	364.4	369.1	374.2
20°	344.4	342.6	341.1	340.8	341.1	342.6	344.4	346.0	349.8	353.8	357.6
22.5°	330.2	328.6	328.4	327.0	328.4	328.6	330.2	332.6	336.4	338.7	342.2
25°	312.3	310.8	310.3	309.2	310.3	310.8	312.3	314.1	316.5	318.3	322.3
27.5°	298.6	297.8	297.0	297.4	297.0	297.8	298.6	298.8	299.9	302.3	304.6
30°	290.2	290.0	289.5	289.5	289.5	290.0	290.2	289.5	290.7	291.8	293.6
32.5°	283.2	283.2	283.5	283.5	283.5	283.2	283.2	282.2	282.7	283.0	283.9
35°	273.5	274.2	274.6	273.9	274.6	274.2	273.5	272.6	271.9	270.3	270.8
37.5°	264.7	265.3	266.0	266.7	266.0	265.3	264.7	262.8	261.2	259.9	258.3
40°	257.9	259.4	259.9	261.0	259.9	259.4	257.9	255.9	254.1	252.5	250.7
42.5°	251.5	253.2	254.3	254.6	254.3	253.2	251.5	249.4	246.8	244.9	242.3
45°	241.6	243.4	245.0	245.0	245.0	243.4	241.6	238.3	235.4	232.4	230.0
47.5°	231.4	233.9	235.5	235.9	235.5	233.9	231.4	227.9	223.9	220.3	216.8
50°	224.4	227.5	229.1	230.2	229.1	227.5	224.4	220.6	216.4	211.9	207.6
52.5°	217.6	220.7	222.8	223.4	222.8	220.7	217.6	212.9	207.8	203.0	199.3
55°	205.9	210.4	212.8	213.7	212.8	210.4	205.9	200.8	195.9	189.8	184.5
57.5°	194.8	199.0	201.8	202.5	201.8	199.0	194.8	188.8	182.5	176.1	170.3
60°	186.2	190.8	194.3	194.9	194.3	190.8	186.2	180.2	173.5	167.3	160.1
62.5°	177.5	182.2	185.4	187.1	185.4	182.2	177.5	171.2	163.9	156.9	149.8
65°	162.4	167.1	170.2	170.9	170.2	167.1	162.4	156.2	148.5	141.2	135.2
67.5°	145.9	150.6	152.6	153.9	152.6	150.6	145.9	140.0	132.5	124.9	118.0
70°	134.3	138.1	140.3	141.4	140.3	138.1	134.3	128.0	121.8	114.0	106.6
72.5°	121.1	125.1	127.6	127.9	127.6	125.1	121.1	115.7	109.1	101.9	95.4
75°	100.9	104.4	105.8	105.8	105.8	104.4	100.9	95.7	90.4	84.5	78.0
77.5°	79.8	81.6	83.3	83.7	83.3	81.6	79.8	76.2	71.7	65.9	61.1
80°	66.3	67.4	68.7	68.7	68.7	67.4	66.3	62.9	58.6	53.7	50.0
82.5°	52.3	53.3	54.6	54.4	54.6	53.3	52.3	49.7	46.2	42.9	39.4
85°	31.7	33.6	33.5	33.0	33.5	33.6	31.7	32.1	28.7	26.6	23.5
87.5°	21.3	21.6	22.2	22.7	22.2	21.6	21.3	20.6	18.9	17.6	16.6
90°	35.1	35.6	36.1	36.7	36.1	35.6	35.1	34.5	33.5	31.8	30.2
92.5°	33.5	33.6	33.6	33.7	33.6	33.6	33.5	33.3	32.4	30.8	29.2
95°	34.6	34.9	35.2	35.4	35.2	34.9	34.6	34.4	33.5	31.8	30.2
97.5°	33.5	33.6	33.9	34.2	33.9	33.6	33.5	33.2	32.9	32.8	32.6
100°	33.5	33.6	33.9	34.2	33.9	33.6	33.5	33.2	35.3	40.0	44.6
102.5°	35.1	35.1	35.2	35.3	35.2	35.1	35.1	35.0	59.9	109.7	159.6
105°	377.8	368.0	358.2	348.5	358.2	368.0	377.8	387.6	391.2	388.8	386.3
107.5°	482.5	483.5	484.6	485.6	484.6	483.5	482.5	481.5	480.3	479.2	478.0
110°	542.8	543.7	544.4	545.3	544.4	543.7	542.8	542.0	541.3	540.7	540.3



TEST NUMBER: P332733-830

CATALOG NUMBER: S124DIW-S350D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	601.8	602.9	603.9	604.9	603.9	602.9	601.8	600.8	600.3	600.4	600.5
115°	691.9	691.9	691.9	691.9	691.9	691.9	691.9	691.9	691.6	691.2	690.6
117.5°	780.8	780.7	780.6	780.4	780.6	780.7	780.8	780.9	781.0	781.1	781.2
120°	837.8	837.3	836.8	836.2	836.8	837.3	837.8	838.4	838.4	837.8	837.3
122.5°	892.6	892.0	891.6	891.0	891.6	892.0	892.6	893.2	893.2	893.0	892.6
125°	972.3	972.6	972.9	973.2	972.9	972.6	972.3	972.0	971.5	970.7	969.9
127.5°	1045.9	1045.7	1045.5	1045.3	1045.5	1045.7	1045.9	1046.1	1046.3	1046.5	1046.7
130°	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.0	1093.7	1093.4
132.5°	1139.8	1139.6	1139.3	1139.2	1139.3	1139.6	1139.8	1140.0	1140.0	1139.7	1139.4
135°	1205.0	1205.5	1206.1	1206.6	1206.1	1205.5	1205.0	1204.5	1203.9	1203.3	1202.9
137.5°	1264.8	1264.7	1264.5	1264.3	1264.5	1264.7	1264.8	1265.0	1264.8	1264.1	1263.6
140°	1303.6	1303.9	1304.2	1304.5	1304.2	1303.9	1303.6	1303.3	1302.8	1302.0	1301.2
142.5°	1337.6	1337.6	1337.7	1337.7	1337.7	1337.6	1337.6	1337.5	1337.2	1336.5	1336.0
145°	1387.1	1387.7	1388.3	1388.8	1388.3	1387.7	1387.1	1386.7	1386.2	1385.9	1385.6
147.5°	1430.3	1430.6	1430.8	1431.1	1430.8	1430.6	1430.3	1430.0	1429.7	1429.6	1429.4
150°	1457.6	1457.9	1458.2	1458.5	1458.2	1457.9	1457.6	1457.4	1457.3	1457.3	1457.3
152.5°	1482.4	1482.2	1482.1	1482.0	1482.1	1482.2	1482.4	1482.6	1482.4	1482.1	1481.6
155°	1516.0	1515.1	1514.3	1513.5	1514.3	1515.1	1516.0	1516.7	1516.6	1515.5	1514.5
157.5°	1544.2	1542.8	1541.3	1539.9	1541.3	1542.8	1544.2	1545.6	1545.6	1544.2	1542.8
160°	1562.4	1560.8	1559.2	1557.6	1559.2	1560.8	1562.4	1564.1	1564.1	1562.4	1560.8
162.5°	1576.8	1574.9	1573.0	1571.2	1573.0	1574.9	1576.8	1578.6	1578.7	1577.1	1575.5
165°	1597.9	1595.4	1593.0	1590.5	1593.0	1595.4	1597.9	1600.2	1600.4	1598.3	1596.1
167.5°	1613.1	1610.3	1607.7	1605.0	1607.7	1610.3	1613.1	1615.8	1616.0	1613.5	1611.2
170°	1621.9	1619.2	1616.5	1613.7	1616.5	1619.2	1621.9	1624.6	1624.8	1622.7	1620.5
172.5°	1627.4	1624.5	1621.6	1618.6	1621.6	1624.5	1627.4	1630.4	1630.8	1628.6	1626.4
175°	1634.6	1631.3	1628.0	1624.8	1628.0	1631.3	1634.6	1637.8	1638.2	1635.8	1633.3
177.5°	1636.4	1633.9	1631.3	1628.6	1631.3	1633.9	1636.4	1639.1	1639.6	1637.8	1636.1
180°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6



TEST NUMBER: P332733-830

CATALOG NUMBER: S124DIW-S350D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	514.7	515.5	518.3	521.0	524.2	526.5	528.1	529.9	533.7	536.7	539.6
5°	482.3	483.4	489.2	493.2	500.1	506.1	510.9	515.9	522.0	530.3	537.8
7.5°	453.6	457.8	464.2	470.7	477.7	485.6	492.5	500.2	510.6	522.0	533.7
10°	437.4	442.1	448.8	456.4	463.1	472.2	480.7	489.8	501.7	515.5	529.3
12.5°	421.2	429.0	434.0	443.0	450.3	457.8	466.8	478.8	492.6	507.1	523.8
15°	400.9	405.1	414.9	419.8	430.1	441.7	450.6	462.6	476.0	495.2	514.0
17.5°	377.4	383.0	390.8	400.1	411.9	420.9	432.1	444.5	461.4	480.4	503.9
20°	362.0	366.7	376.4	386.5	399.1	408.7	420.5	432.5	450.0	470.2	494.7
22.5°	348.3	352.8	363.0	372.5	384.7	396.3	408.7	422.7	439.4	460.8	485.9
25°	327.1	333.0	342.0	351.8	363.4	376.7	390.1	402.7	420.5	443.0	469.8
27.5°	308.1	312.9	319.4	330.5	343.7	356.7	369.9	385.7	402.8	426.7	454.4
30°	296.1	300.5	307.0	317.2	329.5	343.3	357.1	372.3	390.1	413.8	442.1
32.5°	286.3	289.7	295.5	304.7	315.9	330.5	344.1	359.8	378.5	401.8	429.4
35°	272.1	275.0	277.3	286.0	296.1	309.4	323.2	340.0	358.1	380.1	407.7
37.5°	258.2	259.2	262.4	268.2	277.9	290.2	303.0	319.5	338.0	360.4	385.4
40°	249.6	250.1	252.0	257.4	265.9	277.5	290.0	306.2	323.9	345.1	369.9
42.5°	241.2	240.9	242.8	246.6	254.5	265.0	277.3	292.2	309.8	329.4	352.7
45°	228.0	228.0	227.5	230.6	237.1	247.4	257.7	271.9	286.6	305.9	325.5
47.5°	214.1	212.9	213.3	214.9	220.4	228.8	239.1	250.8	263.8	280.0	297.3
50°	205.2	203.4	202.7	204.5	209.4	216.8	226.7	236.9	249.2	263.4	278.1
52.5°	195.4	193.6	192.4	193.7	198.2	205.0	214.0	223.0	234.0	245.6	258.4
55°	180.2	178.2	177.6	178.0	181.3	186.7	194.3	202.6	210.8	220.4	229.3
57.5°	165.3	162.0	161.4	161.2	163.4	168.3	174.7	181.8	187.8	193.7	203.2
60°	155.5	151.5	150.1	149.9	151.7	155.7	161.5	168.6	172.9	176.9	185.1
62.5°	145.0	141.1	138.2	138.5	140.1	143.9	149.0	154.2	157.0	161.4	166.9
65°	128.8	123.9	121.6	120.9	121.8	124.9	128.9	132.2	135.4	137.2	142.5
67.5°	112.4	108.4	105.1	104.2	103.9	106.0	109.3	111.3	113.6	115.1	118.3
70°	101.0	97.5	93.5	92.1	91.9	93.7	96.8	97.1	100.2	100.9	104.2
72.5°	89.8	85.3	82.6	81.2	80.3	81.9	84.0	84.5	86.2	87.5	89.2
75°	72.3	68.9	66.3	64.3	63.6	64.5	64.5	65.6	66.7	67.4	69.4
77.5°	56.9	53.1	49.9	48.7	47.9	47.3	47.8	48.5	48.0	49.1	49.6
80°	46.2	42.1	39.7	39.3	37.9	36.9	36.6	37.2	36.4	36.9	38.2
82.5°	35.6	33.1	30.4	30.0	28.3	27.7	27.5	27.1	27.1	27.0	27.2
85°	21.2	19.6	17.8	16.8	16.0	15.0	15.0	14.5	14.0	13.6	13.9
87.5°	14.2	13.6	12.3	11.3	10.5	9.3	8.9	7.7	6.9	6.1	5.4
90°	28.6	26.9	24.7	22.5	20.4	18.2	15.6	12.6	9.6	6.7	3.7
92.5°	27.5	25.9	23.8	21.6	19.4	17.2	16.0	15.9	15.7	15.6	15.4
95°	28.6	26.9	26.6	26.4	26.1	25.8	30.3	39.5	48.7	58.0	67.2
97.5°	32.4	32.2	62.6	92.9	123.2	153.5	165.8	160.0	154.3	148.5	142.8
100°	49.2	53.8	91.2	128.8	166.3	203.8	220.1	215.2	210.3	205.4	200.5
102.5°	209.3	259.2	264.1	269.0	273.8	278.7	279.4	275.8	272.2	268.6	265.0
105°	383.9	381.4	380.0	378.7	377.4	376.0	374.5	372.9	371.3	369.6	368.0
107.5°	476.7	475.6	473.7	471.8	470.0	468.2	466.8	466.0	465.2	464.4	463.5
110°	539.7	539.1	537.5	535.8	534.2	532.6	531.4	530.6	529.8	529.0	528.1



TEST NUMBER: P332733-830

CATALOG NUMBER: S124DIW-S350D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	600.7	600.8	600.0	599.3	598.5	597.7	596.6	595.1	593.7	592.2	590.7
115°	690.0	689.5	689.8	690.0	690.3	690.6	690.3	689.5	688.7	687.9	687.0
117.5°	781.4	781.5	780.8	780.2	779.7	779.0	778.2	777.1	776.0	775.0	773.8
120°	836.8	836.2	836.5	836.8	837.1	837.3	836.9	835.8	834.7	833.6	832.5
122.5°	892.3	891.9	891.6	891.2	890.8	890.4	889.9	889.3	888.6	888.0	887.3
125°	969.0	968.3	968.7	969.3	969.9	970.4	970.2	969.0	968.0	966.9	965.8
127.5°	1046.8	1047.0	1045.8	1044.4	1043.2	1042.0	1041.2	1040.9	1040.7	1040.4	1040.1
130°	1093.3	1093.0	1092.1	1091.3	1090.5	1089.7	1089.1	1088.8	1088.6	1088.4	1088.1
132.5°	1139.2	1138.9	1137.8	1136.8	1135.9	1134.8	1134.0	1133.5	1133.0	1132.6	1132.1
135°	1202.3	1201.7	1200.7	1199.6	1198.4	1197.4	1197.0	1197.3	1197.5	1197.8	1198.1
137.5°	1263.0	1262.3	1261.2	1260.0	1258.8	1257.6	1257.0	1256.9	1256.7	1256.6	1256.5
140°	1300.3	1299.6	1299.0	1298.4	1297.9	1297.4	1296.8	1296.3	1295.7	1295.2	1294.7
142.5°	1335.4	1334.7	1334.5	1334.1	1333.8	1333.4	1332.8	1331.8	1330.9	1329.8	1328.9
145°	1385.4	1385.2	1385.2	1385.2	1385.2	1385.2	1384.7	1383.9	1383.1	1382.2	1381.5
147.5°	1429.1	1428.9	1429.2	1429.5	1429.7	1430.0	1429.4	1427.9	1426.3	1424.7	1423.2
150°	1457.3	1457.3	1457.5	1457.8	1458.1	1458.3	1457.9	1456.9	1455.8	1454.7	1453.6
152.5°	1481.2	1480.7	1481.2	1481.7	1482.2	1482.7	1482.5	1481.6	1480.7	1479.9	1479.0
155°	1513.3	1512.3	1513.1	1513.9	1514.8	1515.5	1515.8	1515.5	1515.2	1514.9	1514.8
157.5°	1541.3	1539.9	1540.9	1541.7	1542.7	1543.6	1544.2	1544.3	1544.5	1544.6	1544.8
160°	1559.2	1557.6	1557.7	1558.0	1558.3	1558.6	1559.2	1559.9	1560.8	1561.6	1562.4
162.5°	1573.8	1572.2	1572.4	1572.7	1573.0	1573.3	1574.0	1575.0	1576.0	1577.0	1578.0
165°	1593.9	1591.8	1591.8	1591.8	1591.8	1591.8	1592.4	1593.7	1595.2	1596.5	1597.9
167.5°	1608.8	1606.4	1606.6	1606.8	1606.9	1607.0	1607.9	1609.3	1610.7	1612.1	1613.5
170°	1618.3	1616.2	1615.9	1615.6	1615.3	1615.1	1615.8	1617.4	1619.0	1620.7	1622.3
172.5°	1624.2	1622.0	1621.7	1621.6	1621.3	1621.0	1621.6	1623.2	1624.9	1626.5	1628.1
175°	1630.9	1628.4	1628.1	1627.9	1627.6	1627.3	1628.0	1629.7	1631.3	1632.9	1634.6
177.5°	1634.3	1632.6	1632.1	1631.7	1631.3	1630.8	1631.4	1632.9	1634.4	1636.0	1637.5
180°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6



TEST NUMBER: P332733-830

CATALOG NUMBER: S124DIW-S350D1340U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	542.1	543.8	546.2	550.1	551.5	553.3	555.8	555.6	556.3	559.0	564.7
5°	544.0	551.0	557.7	565.7	574.2	579.8	587.3	592.0	596.7	602.8	613.0
7.5°	544.9	555.8	568.1	582.2	594.7	609.2	620.5	631.1	640.7	653.4	665.6
10°	543.7	558.4	574.2	592.0	611.0	627.1	641.6	658.1	672.1	687.5	701.3
12.5°	541.3	559.0	580.2	600.2	622.4	646.1	664.2	680.9	699.6	717.3	738.7
15°	536.0	560.3	585.1	611.4	641.1	668.5	694.7	716.2	736.3	762.9	790.8
17.5°	529.3	555.5	586.8	618.7	649.7	681.0	713.3	745.8	771.2	804.2	826.0
20°	523.1	553.5	585.6	623.5	654.5	693.5	725.7	757.1	791.9	824.7	850.8
22.5°	514.3	547.5	581.6	619.3	660.2	699.3	736.3	770.4	805.3	840.9	872.5
25°	503.2	533.4	573.7	616.5	657.1	699.6	742.2	784.9	822.5	860.2	889.6
27.5°	484.4	522.4	560.0	604.2	649.2	697.2	742.8	787.6	826.9	857.9	876.1
30°	474.7	507.7	548.6	593.0	641.8	693.3	740.8	784.8	821.3	846.1	853.5
32.5°	460.4	494.5	534.4	580.4	632.2	685.1	734.5	776.0	806.5	819.5	810.7
35°	439.2	470.0	510.4	557.4	611.2	667.6	716.5	751.5	767.1	754.9	724.3
37.5°	413.8	444.3	484.8	531.1	586.7	644.1	688.2	713.5	708.3	677.8	632.3
40°	396.0	424.5	463.1	513.0	567.2	624.8	663.6	677.2	663.0	619.3	570.8
42.5°	376.2	404.0	442.7	491.0	548.4	601.4	635.3	636.4	612.5	560.2	511.6
45°	346.0	372.5	409.1	459.3	512.4	562.3	584.7	573.7	529.5	479.2	430.3
47.5°	316.2	339.2	375.3	422.9	473.3	515.4	526.5	506.8	459.8	410.8	365.5
50°	294.5	317.6	351.6	397.1	445.7	482.0	487.4	461.3	415.1	365.8	330.4
52.5°	273.5	296.6	329.2	371.4	415.8	448.7	448.8	418.7	372.7	328.8	295.8
55°	242.9	263.6	293.1	330.8	370.5	396.2	389.9	358.7	318.8	280.6	251.8
57.5°	213.4	231.5	258.5	290.0	325.0	346.2	335.8	305.8	270.1	237.7	215.9
60°	194.3	211.5	234.7	264.4	293.8	310.3	300.5	273.2	240.4	214.3	195.4
62.5°	175.7	190.2	212.5	238.3	265.6	277.8	269.1	242.2	213.9	190.3	174.8
65°	149.5	161.3	179.1	201.2	221.0	231.6	224.2	199.2	177.6	160.6	148.4
67.5°	124.9	134.1	147.7	165.4	182.3	187.9	181.3	163.8	145.5	132.0	123.3
70°	107.9	116.7	128.0	141.7	156.4	162.4	155.7	141.9	127.0	114.4	105.9
72.5°	93.1	99.9	109.5	121.1	132.6	138.6	134.1	120.8	108.2	98.9	91.7
75°	71.0	76.7	83.4	91.7	100.6	104.6	100.6	91.4	82.8	75.9	70.7
77.5°	51.6	54.7	59.9	66.1	71.6	74.6	71.2	65.0	59.7	55.0	52.4
80°	39.3	41.5	45.1	50.0	53.7	56.6	54.4	49.3	45.1	41.9	40.8
82.5°	28.6	30.1	32.4	36.0	38.5	40.1	39.1	35.3	33.6	30.9	29.8
85°	14.0	15.0	16.5	17.6	19.9	20.1	20.3	18.8	17.2	16.5	15.6
87.5°	6.1	6.9	8.0	9.2	10.5	11.0	11.3	11.7	11.4	11.6	11.2
90°	6.7	9.6	12.6	15.6	18.2	20.4	22.5	24.7	26.9	28.6	30.2
92.5°	15.6	15.7	15.9	16.0	17.2	19.4	21.6	23.8	25.9	27.5	29.2
95°	58.0	48.7	39.5	30.3	25.8	26.1	26.4	26.6	26.9	28.6	30.2
97.5°	148.5	154.3	160.0	165.8	153.5	123.2	92.9	62.6	32.2	32.4	32.6
100°	205.4	210.3	215.2	220.1	203.8	166.3	128.8	91.2	53.8	49.2	44.6
102.5°	268.6	272.2	275.8	279.4	278.7	273.8	269.0	264.1	259.2	209.3	159.6
105°	369.6	371.3	372.9	374.5	376.0	377.4	378.7	380.0	381.4	383.9	386.3
107.5°	464.4	465.2	466.0	466.8	468.2	470.0	471.8	473.7	475.6	476.7	478.0
110°	529.0	529.8	530.6	531.4	532.6	534.2	535.8	537.5	539.1	539.7	540.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	592.2	593.7	595.1	596.6	597.7	598.5	599.3	600.0	600.8	600.7	600.5
115°	687.9	688.7	689.5	690.3	690.6	690.3	690.0	689.8	689.5	690.0	690.6
117.5°	775.0	776.0	777.1	778.2	779.0	779.7	780.2	780.8	781.5	781.4	781.2
120°	833.6	834.7	835.8	836.9	837.3	837.1	836.8	836.5	836.2	836.8	837.3
122.5°	888.0	888.6	889.3	889.9	890.4	890.8	891.2	891.6	891.9	892.3	892.6
125°	966.9	968.0	969.0	970.2	970.4	969.9	969.3	968.7	968.3	969.0	969.9
127.5°	1040.4	1040.7	1040.9	1041.2	1042.0	1043.2	1044.4	1045.8	1047.0	1046.8	1046.7
130°	1088.4	1088.6	1088.8	1089.1	1089.7	1090.5	1091.3	1092.1	1093.0	1093.3	1093.4
132.5°	1132.6	1133.0	1133.5	1134.0	1134.8	1135.9	1136.8	1137.8	1138.9	1139.2	1139.4
135°	1197.8	1197.5	1197.3	1197.0	1197.4	1198.4	1199.6	1200.7	1201.7	1202.3	1202.9
137.5°	1256.6	1256.7	1256.9	1257.0	1257.6	1258.8	1260.0	1261.2	1262.3	1263.0	1263.6
140°	1295.2	1295.7	1296.3	1296.8	1297.4	1297.9	1298.4	1299.0	1299.6	1300.3	1301.2
142.5°	1329.8	1330.9	1331.8	1332.8	1333.4	1333.8	1334.1	1334.5	1334.7	1335.4	1336.0
145°	1382.2	1383.1	1383.9	1384.7	1385.2	1385.2	1385.2	1385.2	1385.2	1385.4	1385.6
147.5°	1424.7	1426.3	1427.9	1429.4	1430.0	1429.7	1429.5	1429.2	1428.9	1429.1	1429.4
150°	1454.7	1455.8	1456.9	1457.9	1458.3	1458.1	1457.8	1457.5	1457.3	1457.3	1457.3
152.5°	1479.9	1480.7	1481.6	1482.5	1482.7	1482.2	1481.7	1481.2	1480.7	1481.2	1481.6
155°	1514.9	1515.2	1515.5	1515.8	1515.5	1514.8	1513.9	1513.1	1512.3	1513.3	1514.5
157.5°	1544.6	1544.5	1544.3	1544.2	1543.6	1542.7	1541.7	1540.9	1539.9	1541.3	1542.8
160°	1561.6	1560.8	1559.9	1559.2	1558.6	1558.3	1558.0	1557.7	1557.6	1559.2	1560.8
162.5°	1577.0	1576.0	1575.0	1574.0	1573.3	1573.0	1572.7	1572.4	1572.2	1573.8	1575.5
165°	1596.5	1595.2	1593.7	1592.4	1591.8	1591.8	1591.8	1591.8	1591.8	1593.9	1596.1
167.5°	1612.1	1610.7	1609.3	1607.9	1607.0	1606.9	1606.8	1606.6	1606.4	1608.8	1611.2
170°	1620.7	1619.0	1617.4	1615.8	1615.1	1615.3	1615.6	1615.9	1616.2	1618.3	1620.5
172.5°	1626.5	1624.9	1623.2	1621.6	1621.0	1621.3	1621.6	1621.7	1622.0	1624.2	1626.4
175°	1632.9	1631.3	1629.7	1628.0	1627.3	1627.6	1627.9	1628.1	1628.4	1630.9	1633.3
177.5°	1636.0	1634.4	1632.9	1631.4	1630.8	1631.3	1631.7	1632.1	1632.6	1634.3	1636.1
180°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	567.6	568.0	569.6	570.8	571.2	573.0	573.1
5°	617.5	621.2	628.6	629.2	630.4	636.2	631.7
7.5°	675.9	685.5	691.9	697.7	699.6	702.2	701.7
10°	713.4	727.6	734.8	746.2	746.6	749.5	747.7
12.5°	751.0	767.6	780.6	782.8	792.3	793.8	796.3
15°	804.4	822.0	840.1	846.6	859.7	862.8	867.7
17.5°	854.5	872.5	885.2	901.9	907.4	914.5	909.6
20°	882.0	901.6	917.8	930.9	936.4	940.5	940.0
22.5°	898.6	918.4	931.4	941.4	946.6	948.3	948.2
25°	909.0	920.4	924.4	928.2	922.4	920.4	921.2
27.5°	880.1	877.1	866.7	852.9	838.7	827.4	821.1
30°	840.3	822.9	807.1	779.4	765.2	756.7	749.0
32.5°	783.9	756.3	725.9	700.5	684.3	671.8	669.9
35°	687.3	645.8	608.5	577.5	561.5	547.9	544.7
37.5°	584.3	541.2	507.7	480.3	463.1	453.5	444.5
40°	515.9	478.9	445.9	422.7	409.5	402.7	397.1
42.5°	463.4	429.5	396.6	379.0	367.1	362.9	359.6
45°	390.6	359.1	336.4	323.0	316.1	309.0	305.6
47.5°	332.3	306.8	291.8	280.4	273.0	268.7	266.6
50°	299.4	278.4	265.0	256.3	249.6	246.3	244.5
52.5°	270.1	252.9	241.7	234.7	230.2	227.7	227.0
55°	232.6	219.5	212.4	206.3	203.0	200.8	199.9
57.5°	202.3	192.1	186.3	181.3	180.0	178.2	177.6
60°	182.3	174.5	169.6	166.2	165.0	162.9	163.2
62.5°	164.6	158.2	154.0	152.1	150.6	148.7	149.4
65°	139.2	134.5	132.2	130.5	128.8	127.6	128.5
67.5°	116.8	113.6	110.6	109.5	108.7	108.5	107.5
70°	102.2	99.5	96.8	96.1	96.1	95.3	95.0
72.5°	88.0	86.1	84.4	83.8	83.1	83.5	82.6
75°	68.1	66.4	65.8	65.1	64.9	64.9	64.3
77.5°	50.2	49.1	48.1	48.1	47.2	46.9	46.8
80°	38.2	37.7	36.9	36.9	36.4	36.6	36.1
82.5°	28.7	28.1	27.9	27.5	26.9	27.0	26.5
85°	15.4	14.7	14.5	13.9	13.4	13.9	13.4
87.5°	11.7	11.9	11.9	11.7	11.6	11.7	11.2
90°	31.8	33.5	34.5	35.1	35.6	36.1	36.7
92.5°	30.8	32.4	33.3	33.5	33.6	33.6	33.7
95°	31.8	33.5	34.4	34.6	34.9	35.2	35.4
97.5°	32.8	32.9	33.2	33.5	33.6	33.9	34.2
100°	40.0	35.3	33.2	33.5	33.6	33.9	34.2
102.5°	109.7	59.9	35.0	35.1	35.1	35.2	35.3
105°	388.8	391.2	387.6	377.8	368.0	358.2	348.5
107.5°	479.2	480.3	481.5	482.5	483.5	484.6	485.6
110°	540.7	541.3	542.0	542.8	543.7	544.4	545.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	600.4	600.3	600.8	601.8	602.9	603.9	604.9
115°	691.2	691.6	691.9	691.9	691.9	691.9	691.9
117.5°	781.1	781.0	780.9	780.8	780.7	780.6	780.4
120°	837.8	838.4	838.4	837.8	837.3	836.8	836.2
122.5°	893.0	893.2	893.2	892.6	892.0	891.6	891.0
125°	970.7	971.5	972.0	972.3	972.6	972.9	973.2
127.5°	1046.5	1046.3	1046.1	1045.9	1045.7	1045.5	1045.3
130°	1093.7	1094.0	1094.2	1094.2	1094.2	1094.2	1094.2
132.5°	1139.7	1140.0	1140.0	1139.8	1139.6	1139.3	1139.2
135°	1203.3	1203.9	1204.5	1205.0	1205.5	1206.1	1206.6
137.5°	1264.1	1264.8	1265.0	1264.8	1264.7	1264.5	1264.3
140°	1302.0	1302.8	1303.3	1303.6	1303.9	1304.2	1304.5
142.5°	1336.5	1337.2	1337.5	1337.6	1337.6	1337.7	1337.7
145°	1385.9	1386.2	1386.7	1387.1	1387.7	1388.3	1388.8
147.5°	1429.6	1429.7	1430.0	1430.3	1430.6	1430.8	1431.1
150°	1457.3	1457.3	1457.4	1457.6	1457.9	1458.2	1458.5
152.5°	1482.1	1482.4	1482.6	1482.4	1482.2	1482.1	1482.0
155°	1515.5	1516.6	1516.7	1516.0	1515.1	1514.3	1513.5
157.5°	1544.2	1545.6	1545.6	1544.2	1542.8	1541.3	1539.9
160°	1562.4	1564.1	1564.1	1562.4	1560.8	1559.2	1557.6
162.5°	1577.1	1578.7	1578.6	1576.8	1574.9	1573.0	1571.2
165°	1598.3	1600.4	1600.2	1597.9	1595.4	1593.0	1590.5
167.5°	1613.5	1616.0	1615.8	1613.1	1610.3	1607.7	1605.0
170°	1622.7	1624.8	1624.6	1621.9	1619.2	1616.5	1613.7
172.5°	1628.6	1630.8	1630.4	1627.4	1624.5	1621.6	1618.6
175°	1635.8	1638.2	1637.8	1634.6	1631.3	1628.0	1624.8
177.5°	1637.8	1639.6	1639.1	1636.4	1633.9	1631.3	1628.6
180°	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6	1634.6

(END OF REPORT)