

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: P332740-840

Luminaire Tested: **S124DIW-S350D1560U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332740-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIW-S350D1560U840-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7060.2 lumens
Efficiency: N/A
Efficacy: 132.2 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

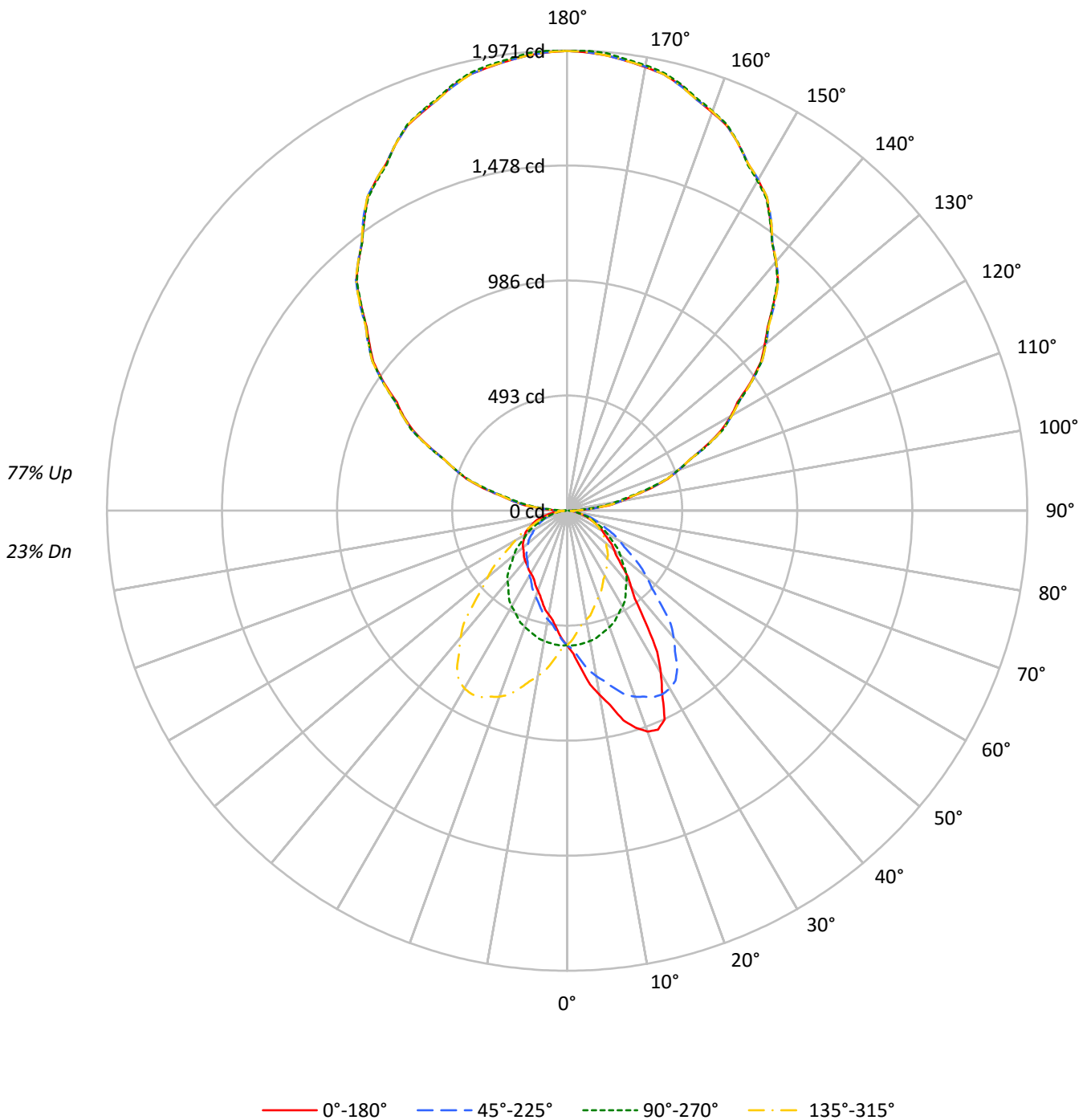
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	27	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	49	46	42	39	33	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	41	36	37	32	28	27	24	21	17	16	14	10
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°	4657	4657	4657	4657
5°	5485	4669	4122	4669
10°	6567	4649	3710	4649
15°	7770	4603	3408	4603
20°	8652	4554	3137	4554
25°	8792	4483	2950	4483
30°	7481	4416	2892	4416
35°	5752	4306	2893	4306
40°	4484	4176	2947	4176
45°	3738	3981	2997	3981
50°	3291	3743	3097	3743
55°	3015	3458	3222	3458
60°	2824	3202	3371	3202
65°	2628	2917	3498	2917
70°	2403	2634	3576	2634
75°	2149	2318	3534	2318
80°	1799	1901	3422	1901
85°	1325	1371	3270	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	0.8
10°-20°	173.3	2.5
20°-30°	274.7	3.9
30°-40°	305.7	4.3
40°-50°	278.3	3.9
50°-60°	227.4	3.2
60°-70°	162.4	2.3
70°-80°	89.4	1.3
80°-90°	30.3	0.4
90°-100°	129.9	1.8
100°-110°	384.7	5.4
110°-120°	652.9	9.2
120°-130°	861.0	12.2
130°-140°	966.9	13.7
140°-150°	950.1	13.5
150°-160°	799.1	11.3
160°-170°	531.7	7.5
170°-180°	186.2	2.6
0°-30°	504.2	7.1
0°-40°	809.9	11.5
0°-60°	1315.6	18.6
0°-90°	1597.7	22.6
90°-120°	1167.5	16.5
90°-150°	3945.5	55.9
90°-180°	5463.0	77.4
0°-180°	7060.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	577	577	577	577	577	
5°	677	576	509	576	677	69
15°	930	551	408	551	930	263
25°	987	503	331	503	987	435
35°	584	437	294	437	584	370
45°	327	349	262	349	327	258
55°	214	246	229	246	214	193
65°	138	153	183	153	138	136
75°	69	74	113	74	69	73
85°	14	15	35	15	14	19
90°	46	4	46	4	46	24
95°	120	91	120	91	120	125
105°	372	355	372	355	372	392
115°	658	664	658	664	658	650
125°	959	967	959	967	959	856
135°	1249	1247	1249	1247	1249	964
145°	1517	1515	1517	1515	1517	949
155°	1734	1736	1734	1736	1734	798
165°	1885	1890	1885	1890	1885	531
175°	1957	1966	1957	1966	1957	186
180°	1969	1969	1969	1969	1969	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	614.0	613.9	612.0	611.6	610.3	608.5	608.1	605.0	599.0	596.0	595.3
5°	676.8	681.7	675.4	674.2	673.5	665.6	661.6	656.8	645.8	639.3	634.3
7.5°	751.8	752.3	749.6	747.5	741.3	734.5	724.2	713.2	700.0	686.5	676.2
10°	801.1	803.0	799.9	799.5	787.3	779.6	764.4	751.4	736.6	720.1	705.1
12.5°	853.1	850.5	848.9	838.7	836.4	822.4	804.7	791.4	768.5	749.5	729.5
15°	929.7	924.4	921.1	907.1	900.1	880.7	861.8	847.3	817.4	788.9	767.4
17.5°	974.6	979.9	972.2	966.3	948.5	934.8	915.5	884.9	861.6	826.3	799.1
20°	1007.1	1007.6	1003.3	997.3	983.3	966.0	945.0	911.6	883.6	848.5	811.1
22.5°	1015.9	1016.0	1014.2	1008.7	997.9	984.0	962.8	934.8	901.0	862.8	825.5
25°	987.0	986.1	988.3	994.5	990.5	986.1	973.9	953.1	921.6	881.2	841.0
27.5°	879.8	886.5	898.6	913.8	928.6	939.8	942.9	938.7	919.2	886.0	843.8
30°	802.5	810.7	819.8	835.1	864.7	881.7	900.3	914.4	906.6	880.0	840.8
32.5°	717.7	719.7	733.2	750.5	777.7	810.3	839.9	868.6	878.1	864.1	831.4
35°	583.6	587.0	601.6	618.7	652.0	692.0	736.4	776.1	808.8	821.9	805.2
37.5°	476.3	485.8	496.1	514.6	543.9	579.9	626.0	677.4	726.2	758.9	764.5
40°	425.5	431.4	438.8	452.9	477.8	513.1	552.8	611.6	663.5	710.3	725.6
42.5°	385.3	388.8	393.3	406.1	425.0	460.2	496.4	548.2	600.2	656.2	681.9
45°	327.4	331.0	338.7	346.1	360.4	384.8	418.5	461.0	513.4	567.3	614.7
47.5°	285.7	287.9	292.5	300.4	312.7	328.7	356.1	391.6	440.1	492.6	543.0
50°	262.0	263.9	267.4	274.6	284.0	298.3	320.7	354.0	391.9	444.7	494.2
52.5°	243.2	244.0	246.6	251.5	258.9	270.9	289.4	316.9	352.2	399.3	448.6
55°	214.2	215.1	217.5	221.1	227.5	235.2	249.2	269.8	300.6	341.5	384.4
57.5°	190.3	191.0	192.9	194.3	199.7	205.8	216.7	231.4	254.7	289.4	327.6
60°	174.9	174.5	176.8	178.0	181.7	186.9	195.3	209.3	229.6	257.6	292.8
62.5°	160.1	159.4	161.4	163.0	165.0	169.5	176.3	187.3	203.9	229.1	259.5
65°	137.6	136.7	137.9	139.9	141.7	144.1	149.2	159.0	172.1	190.3	213.4
67.5°	115.2	116.2	116.4	117.3	118.5	121.7	125.1	132.1	141.4	155.9	175.5
70°	101.8	102.1	103.0	103.0	103.7	106.6	109.5	113.5	122.6	136.0	152.0
72.5°	88.5	89.5	89.1	89.8	90.4	92.3	94.3	98.3	105.9	115.9	129.5
75°	68.9	69.6	69.6	69.8	70.5	71.2	72.9	75.7	81.3	88.7	98.0
77.5°	50.2	50.3	50.6	51.5	51.5	52.6	53.8	56.1	58.9	63.9	69.7
80°	38.7	39.2	39.0	39.5	39.5	40.4	40.9	43.7	44.9	48.3	52.8
82.5°	28.4	28.9	28.8	29.5	29.9	30.1	30.7	31.9	33.1	36.1	37.9
85°	14.3	14.8	14.3	14.8	15.6	15.8	16.5	16.8	17.7	18.4	20.1
87.5°	13.3	13.7	13.6	13.7	13.9	13.8	13.6	13.0	13.4	13.2	13.4
90°	45.6	45.0	44.3	43.6	43.0	41.6	39.6	37.6	35.5	33.5	30.8
92.5°	67.6	67.2	66.8	66.3	65.9	65.1	63.9	62.7	61.5	60.3	58.4
95°	120.3	120.3	120.3	120.3	120.3	119.8	118.8	117.8	116.7	115.7	113.4
97.5°	188.5	188.5	188.5	188.5	188.5	187.9	186.7	185.5	184.2	183.0	180.3
100°	236.0	236.0	236.0	236.0	236.0	235.7	235.0	234.3	233.7	233.0	229.9
102.5°	289.6	289.3	289.1	288.8	288.5	287.9	287.0	286.0	285.1	284.2	281.3
105°	371.5	370.5	369.5	368.5	367.5	366.5	365.5	364.5	363.5	362.4	361.0
107.5°	451.3	451.4	451.5	451.5	451.6	451.2	450.2	449.3	448.3	447.4	447.2
110°	508.6	507.6	506.5	505.5	504.5	504.3	505.0	505.7	506.3	507.1	507.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	567.0	566.8	566.6	566.4	566.2	566.2	566.3	566.4	566.6	566.7	567.3
115°	657.8	658.1	658.5	658.8	659.1	659.5	659.8	660.1	660.6	660.9	661.6
117.5°	744.3	745.0	745.7	746.3	747.0	747.9	749.1	750.2	751.3	752.6	753.0
120°	810.1	809.4	808.7	808.1	807.4	807.9	809.6	811.2	812.9	814.7	815.7
122.5°	864.9	866.2	867.4	868.6	869.8	871.0	872.1	873.2	874.4	875.6	876.1
125°	959.3	960.0	960.7	961.3	962.0	962.7	963.4	964.0	964.7	965.4	965.7
127.5°	1046.7	1047.2	1047.8	1048.3	1048.8	1049.5	1050.2	1050.9	1051.5	1052.2	1052.8
130°	1104.0	1105.3	1106.7	1108.0	1109.3	1110.3	1111.1	1111.8	1112.5	1113.1	1113.1
132.5°	1164.9	1165.4	1166.0	1166.5	1167.0	1167.6	1168.3	1169.0	1169.7	1170.3	1170.6
135°	1248.6	1249.6	1250.6	1251.6	1252.6	1253.5	1254.3	1254.9	1255.6	1256.3	1256.3
137.5°	1336.7	1336.5	1336.3	1336.1	1335.8	1336.2	1337.1	1338.0	1338.8	1339.7	1339.2
140°	1390.3	1390.6	1390.9	1391.3	1391.6	1391.9	1392.3	1392.6	1392.9	1393.3	1393.3
142.5°	1443.8	1443.9	1444.0	1444.0	1444.1	1444.2	1444.2	1444.3	1444.4	1444.4	1444.7
145°	1516.6	1517.6	1518.6	1519.6	1520.7	1521.4	1521.7	1522.1	1522.4	1522.7	1522.4
147.5°	1590.3	1590.6	1591.0	1591.3	1591.6	1592.0	1592.3	1592.6	1592.8	1593.1	1593.4
150°	1635.4	1635.8	1636.1	1636.4	1636.8	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9
152.5°	1676.8	1677.7	1678.6	1679.4	1680.3	1680.3	1679.5	1678.7	1677.9	1677.1	1676.9
155°	1734.3	1735.8	1737.1	1738.4	1739.8	1739.8	1738.4	1737.1	1735.8	1734.3	1734.7
157.5°	1785.8	1787.0	1788.2	1789.3	1790.4	1790.5	1789.5	1788.5	1787.5	1786.5	1786.6
160°	1815.0	1816.7	1818.5	1820.2	1821.8	1822.2	1821.2	1820.2	1819.2	1818.2	1818.5
162.5°	1845.5	1847.2	1849.0	1850.6	1852.3	1852.2	1850.4	1848.6	1846.7	1844.9	1845.2
165°	1885.1	1886.4	1887.8	1889.2	1890.6	1890.2	1888.1	1886.1	1884.1	1882.1	1882.8
167.5°	1913.4	1915.5	1917.6	1919.8	1921.9	1921.9	1919.9	1917.8	1915.8	1913.8	1913.7
170°	1929.2	1931.7	1934.0	1936.4	1938.7	1938.9	1936.9	1934.9	1932.8	1930.8	1930.5
172.5°	1942.7	1945.0	1947.4	1949.7	1952.2	1952.2	1949.8	1947.6	1945.3	1943.0	1942.9
175°	1956.7	1959.0	1961.5	1963.8	1966.2	1966.2	1963.8	1961.5	1959.0	1956.7	1957.0
177.5°	1964.0	1966.2	1968.3	1970.4	1972.7	1972.8	1970.9	1969.0	1967.1	1965.2	1965.2
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	595.5	592.8	590.9	589.4	585.2	582.7	580.8	578.1	575.0	571.8	567.7
5°	629.2	621.2	615.2	606.1	597.5	590.4	582.9	576.2	568.2	559.3	552.8
7.5°	664.8	652.7	637.2	623.8	608.6	595.5	583.8	571.8	559.3	547.0	535.9
10°	687.4	671.9	654.6	634.3	615.2	598.2	582.5	567.1	552.3	537.6	524.8
12.5°	711.7	692.3	666.8	643.1	621.7	599.0	580.0	561.2	543.3	527.8	513.0
15°	744.3	716.3	686.9	655.1	626.9	600.4	574.3	550.7	530.6	510.0	495.6
17.5°	764.3	729.6	696.1	662.9	628.7	595.2	567.1	539.9	514.7	494.3	476.3
20°	777.5	743.1	701.3	668.0	627.4	593.0	560.5	530.1	503.8	482.1	463.4
22.5°	788.9	749.2	707.3	663.6	623.2	586.6	551.1	520.6	493.7	470.8	452.9
25°	795.2	749.5	704.1	660.6	614.7	571.5	539.2	503.3	474.6	450.5	431.4
27.5°	795.9	747.0	695.6	647.3	600.0	559.7	519.0	486.9	457.2	431.6	413.2
30°	793.8	742.9	687.6	635.3	587.7	544.0	508.6	473.7	443.3	418.0	398.9
32.5°	787.0	734.1	677.3	621.9	572.6	529.8	493.3	460.1	430.5	405.6	385.5
35°	767.7	715.3	654.9	597.2	546.8	503.6	470.6	436.9	407.3	383.6	364.3
37.5°	737.4	690.1	628.6	569.1	519.5	476.1	443.3	412.9	386.2	362.1	342.3
40°	711.0	669.4	607.7	549.7	496.1	454.8	424.2	396.3	369.7	347.0	328.1
42.5°	680.6	644.4	587.5	526.0	474.3	432.8	403.0	377.9	352.9	331.9	313.1
45°	626.4	602.5	549.0	492.1	438.3	399.1	370.7	348.7	327.7	307.1	291.3
47.5°	564.1	552.2	507.2	453.1	402.1	363.5	338.8	318.5	300.0	282.7	268.7
50°	522.2	516.4	477.6	425.5	376.7	340.3	315.5	298.0	282.3	267.0	253.8
52.5°	480.9	480.7	445.6	397.9	352.7	317.8	293.1	276.8	263.2	250.7	238.9
55°	417.8	424.4	397.0	354.5	314.1	282.5	260.2	245.7	236.1	225.9	217.0
57.5°	359.8	370.9	348.2	310.7	277.0	248.0	228.6	217.7	207.5	201.3	194.8
60°	321.9	332.4	314.8	283.3	251.5	226.6	208.1	198.3	189.6	185.2	180.7
62.5°	288.3	297.6	284.6	255.3	227.7	203.8	188.2	178.8	172.9	168.2	165.2
65°	240.2	248.1	236.8	215.6	191.9	172.8	160.2	152.7	147.0	145.1	141.7
67.5°	194.2	201.4	195.3	177.2	158.2	143.7	133.8	126.7	123.3	121.7	119.3
70°	166.8	174.0	167.5	151.8	137.1	125.0	115.6	111.6	108.1	107.3	104.0
72.5°	143.7	148.6	142.1	129.8	117.3	107.0	99.8	95.5	93.7	92.4	90.6
75°	107.8	112.1	107.8	98.3	89.4	82.2	76.0	74.3	72.2	71.5	70.3
77.5°	76.2	80.0	76.7	70.8	64.1	58.6	55.2	53.1	52.6	51.4	52.0
80°	58.3	60.7	57.6	53.5	48.3	44.4	42.1	40.9	39.5	39.0	39.9
82.5°	41.9	42.9	41.3	38.6	34.7	32.2	30.6	29.2	28.9	29.0	29.0
85°	21.7	21.5	21.3	18.9	17.7	16.1	15.0	14.8	14.5	15.0	15.6
87.5°	12.9	12.5	11.8	10.4	9.1	7.8	6.9	5.9	6.9	7.8	8.7
90°	28.1	25.3	22.7	19.5	15.8	12.0	8.3	4.5	8.3	12.0	15.8
92.5°	56.6	54.6	52.7	49.7	45.3	41.1	36.9	32.6	36.9	41.1	45.3
95°	111.0	108.7	106.2	103.5	100.5	97.5	94.4	91.4	94.4	97.5	100.5
97.5°	177.4	174.7	172.0	169.4	166.9	164.4	162.0	159.6	162.0	164.4	166.9
100°	226.9	223.9	220.8	218.6	217.2	215.9	214.5	213.2	214.5	215.9	217.2
102.5°	278.6	275.8	273.1	271.4	270.8	270.3	269.7	269.2	269.7	270.3	270.8
105°	359.7	358.3	357.0	356.2	355.8	355.5	355.2	354.8	355.2	355.5	355.8
107.5°	447.0	446.8	446.6	446.3	445.9	445.5	445.0	444.6	445.0	445.5	445.9
110°	507.8	508.1	508.5	508.3	507.6	506.9	506.2	505.5	506.2	506.9	507.6



TEST NUMBER: P332740-840

CATALOG NUMBER: S124DIW-S350D1560U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	567.9	568.6	569.2	569.5	569.3	569.2	569.1	568.9	569.1	569.2	569.3
115°	662.2	662.9	663.6	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9
117.5°	753.5	754.0	754.5	754.6	754.3	754.0	753.7	753.5	753.7	754.0	754.3
120°	816.7	817.7	818.7	818.5	817.2	815.9	814.5	813.1	814.5	815.9	817.2
122.5°	876.5	877.0	877.5	877.4	876.9	876.4	875.8	875.3	875.8	876.4	876.9
125°	966.0	966.4	966.7	966.9	966.9	966.9	966.9	966.9	966.9	966.9	966.9
127.5°	1053.3	1053.8	1054.4	1054.1	1053.1	1052.1	1051.1	1050.1	1051.1	1052.1	1053.1
130°	1113.1	1113.1	1113.1	1112.6	1111.6	1110.5	1109.5	1108.5	1109.5	1110.5	1111.6
132.5°	1170.9	1171.1	1171.4	1171.2	1170.4	1169.7	1169.0	1168.2	1169.0	1169.7	1170.4
135°	1256.3	1256.3	1256.3	1255.3	1253.2	1251.1	1249.1	1247.1	1249.1	1251.1	1253.2
137.5°	1338.6	1338.1	1337.6	1336.8	1335.8	1334.8	1333.9	1333.0	1333.9	1334.8	1335.8
140°	1393.3	1393.3	1393.3	1392.9	1392.3	1391.6	1390.9	1390.3	1390.9	1391.6	1392.3
142.5°	1445.0	1445.2	1445.5	1445.3	1444.6	1444.0	1443.3	1442.6	1443.3	1444.0	1444.6
145°	1522.1	1521.7	1521.4	1520.6	1519.1	1517.8	1516.4	1515.1	1516.4	1517.8	1519.1
147.5°	1593.6	1593.9	1594.2	1593.5	1591.9	1590.2	1588.6	1587.0	1588.6	1590.2	1591.9
150°	1636.9	1636.9	1636.9	1636.3	1634.9	1633.6	1632.1	1630.8	1632.1	1633.6	1634.9
152.5°	1676.6	1676.3	1676.1	1675.5	1674.7	1673.9	1673.0	1672.2	1673.0	1673.9	1674.7
155°	1735.0	1735.4	1735.8	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9	1735.9
157.5°	1786.6	1786.7	1786.8	1787.1	1787.7	1788.3	1788.9	1789.5	1788.9	1788.3	1787.7
160°	1818.8	1819.2	1819.5	1819.8	1820.2	1820.5	1820.8	1821.2	1820.8	1820.5	1820.2
162.5°	1845.6	1845.9	1846.2	1846.8	1847.8	1848.7	1849.6	1850.4	1849.6	1848.7	1847.8
165°	1883.4	1884.1	1884.8	1885.6	1886.6	1887.6	1888.6	1889.7	1888.6	1887.6	1886.6
167.5°	1913.6	1913.6	1913.5	1914.2	1915.6	1917.0	1918.4	1919.9	1918.4	1917.0	1915.6
170°	1930.2	1929.8	1929.4	1930.2	1931.8	1933.5	1935.2	1936.9	1935.2	1933.5	1931.8
172.5°	1942.9	1942.8	1942.7	1943.4	1944.8	1946.2	1947.6	1949.0	1947.6	1946.2	1944.8
175°	1957.3	1957.7	1958.0	1959.0	1960.8	1962.5	1964.1	1965.8	1964.1	1962.5	1960.8
177.5°	1965.2	1965.2	1965.2	1965.9	1967.2	1968.6	1969.9	1971.3	1969.9	1968.6	1967.2
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



TEST NUMBER: P332740-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	565.8	564.1	561.7	558.3	555.3	552.3	551.5	550.4	552.7	550.8	550.2
5°	547.3	542.3	535.8	528.5	524.1	518.0	516.7	514.3	511.9	511.7	509.3
7.5°	527.7	520.3	511.8	504.3	497.4	490.5	486.0	485.1	481.6	479.5	477.2
10°	515.0	505.9	496.1	489.0	480.9	473.7	468.7	465.9	463.4	460.8	458.4
12.5°	500.2	490.5	482.4	474.6	465.0	459.6	451.3	446.4	445.9	445.9	439.7
15°	482.8	473.2	460.8	449.8	444.5	434.0	429.5	423.7	420.2	416.6	413.7
17.5°	462.9	451.0	441.3	428.7	418.7	410.3	404.3	400.9	395.5	390.4	386.8
20°	450.5	437.9	427.6	414.1	403.2	392.9	387.9	383.1	379.1	374.8	370.7
22.5°	437.9	424.6	412.1	399.1	388.9	378.0	373.1	366.7	362.8	360.4	356.4
25°	418.0	403.6	389.3	376.9	366.4	356.8	350.4	345.4	341.0	339.1	336.5
27.5°	396.4	382.1	368.3	354.2	342.2	335.3	330.1	326.4	323.9	321.3	320.1
30°	382.6	367.8	353.0	339.8	328.9	321.9	317.2	314.6	312.7	311.4	310.2
32.5°	368.7	354.1	338.5	326.5	316.6	310.4	306.8	304.2	303.3	302.9	302.4
35°	346.3	331.5	317.2	306.4	297.1	294.7	291.5	290.1	289.6	291.3	292.1
37.5°	324.7	310.9	297.7	287.3	281.1	277.7	276.6	276.7	278.4	279.8	281.6
40°	310.7	297.3	284.9	275.8	270.0	267.9	267.4	268.6	270.5	272.3	274.2
42.5°	297.1	284.0	272.7	264.2	260.1	258.1	258.4	259.6	262.4	264.4	267.2
45°	276.1	265.1	254.1	247.1	243.8	244.3	244.3	246.4	249.0	252.2	255.3
47.5°	256.2	245.1	236.1	230.2	228.5	228.1	229.4	232.3	236.0	239.8	244.2
50°	242.9	232.3	224.4	219.1	217.2	217.9	219.8	222.5	227.0	231.9	236.4
52.5°	229.2	219.6	212.4	207.5	206.1	207.4	209.3	213.5	217.5	222.7	228.1
55°	208.1	200.1	194.3	190.8	190.3	191.0	193.1	197.6	203.4	209.8	215.1
57.5°	187.2	180.4	175.1	172.7	172.9	173.6	177.1	182.5	188.6	195.5	202.3
60°	173.0	166.8	162.5	160.6	160.9	162.3	166.6	171.6	179.3	185.9	193.1
62.5°	159.7	154.2	150.1	148.3	148.0	151.2	155.3	160.5	168.1	175.6	183.4
65°	138.1	133.8	130.5	129.6	130.3	132.7	137.9	144.8	151.3	159.2	167.3
67.5°	117.1	113.6	111.3	111.7	112.6	116.1	120.5	126.4	133.8	142.0	150.0
70°	103.7	100.4	98.5	98.7	100.2	104.4	108.3	114.2	122.1	130.5	137.1
72.5°	90.0	87.8	86.0	87.1	88.5	91.4	96.2	102.2	109.2	116.9	124.0
75°	69.1	69.1	68.2	68.9	71.0	73.8	77.5	83.6	90.6	96.8	102.5
77.5°	51.2	50.7	51.3	52.2	53.4	56.9	61.0	65.4	70.6	76.9	81.6
80°	39.2	39.5	40.6	42.1	42.5	45.1	49.5	53.5	57.6	62.8	67.4
82.5°	29.5	29.7	30.3	32.1	32.6	35.4	38.2	42.2	45.9	49.5	53.2
85°	16.1	16.1	17.2	18.0	19.1	21.0	22.7	25.1	28.5	30.8	34.4
87.5°	10.0	10.6	11.9	12.9	14.0	15.5	16.3	18.8	20.0	21.3	23.3
90°	19.5	22.7	25.3	28.1	30.8	33.5	35.5	37.6	39.6	41.6	43.0
92.5°	49.7	52.7	54.6	56.6	58.4	60.3	61.5	62.7	63.9	65.1	65.9
95°	103.5	106.2	108.7	111.0	113.4	115.7	116.7	117.8	118.8	119.8	120.3
97.5°	169.4	172.0	174.7	177.4	180.3	183.0	184.2	185.5	186.7	187.9	188.5
100°	218.6	220.8	223.9	226.9	229.9	233.0	233.7	234.3	235.0	235.7	236.0
102.5°	271.4	273.1	275.8	278.6	281.3	284.2	285.1	286.0	287.0	287.9	288.5
105°	356.2	357.0	358.3	359.7	361.0	362.4	363.5	364.5	365.5	366.5	367.5
107.5°	446.3	446.6	446.8	447.0	447.2	447.4	448.3	449.3	450.2	451.2	451.6
110°	508.3	508.5	508.1	507.8	507.4	507.1	506.3	505.7	505.0	504.3	504.5



TEST NUMBER: P332740-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	569.5	569.2	568.6	567.9	567.3	566.7	566.6	566.4	566.3	566.2	566.2
115°	663.9	663.6	662.9	662.2	661.6	660.9	660.6	660.1	659.8	659.5	659.1
117.5°	754.6	754.5	754.0	753.5	753.0	752.6	751.3	750.2	749.1	747.9	747.0
120°	818.5	818.7	817.7	816.7	815.7	814.7	812.9	811.2	809.6	807.9	807.4
122.5°	877.4	877.5	877.0	876.5	876.1	875.6	874.4	873.2	872.1	871.0	869.8
125°	966.9	966.7	966.4	966.0	965.7	965.4	964.7	964.0	963.4	962.7	962.0
127.5°	1054.1	1054.4	1053.8	1053.3	1052.8	1052.2	1051.5	1050.9	1050.2	1049.5	1048.8
130°	1112.6	1113.1	1113.1	1113.1	1113.1	1113.1	1112.5	1111.8	1111.1	1110.3	1109.3
132.5°	1171.2	1171.4	1171.1	1170.9	1170.6	1170.3	1169.7	1169.0	1168.3	1167.6	1167.0
135°	1255.3	1256.3	1256.3	1256.3	1256.3	1256.3	1255.6	1254.9	1254.3	1253.5	1252.6
137.5°	1336.8	1337.6	1338.1	1338.6	1339.2	1339.7	1338.8	1338.0	1337.1	1336.2	1335.8
140°	1392.9	1393.3	1393.3	1393.3	1393.3	1393.3	1392.9	1392.6	1392.3	1391.9	1391.6
142.5°	1445.3	1445.5	1445.2	1445.0	1444.7	1444.4	1444.4	1444.3	1444.2	1444.2	1444.1
145°	1520.6	1521.4	1521.7	1522.1	1522.4	1522.7	1522.4	1522.1	1521.7	1521.4	1520.7
147.5°	1593.5	1594.2	1593.9	1593.6	1593.4	1593.1	1592.8	1592.6	1592.3	1592.0	1591.6
150°	1636.3	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.8
152.5°	1675.5	1676.1	1676.3	1676.6	1676.9	1677.1	1677.9	1678.7	1679.5	1680.3	1680.3
155°	1735.9	1735.8	1735.4	1735.0	1734.7	1734.3	1735.8	1737.1	1738.4	1739.8	1739.8
157.5°	1787.1	1786.8	1786.7	1786.6	1786.6	1786.5	1787.5	1788.5	1789.5	1790.5	1790.4
160°	1819.8	1819.5	1819.2	1818.8	1818.5	1818.2	1819.2	1820.2	1821.2	1822.2	1821.8
162.5°	1846.8	1846.2	1845.9	1845.6	1845.2	1844.9	1846.7	1848.6	1850.4	1852.2	1852.3
165°	1885.6	1884.8	1884.1	1883.4	1882.8	1882.1	1884.1	1886.1	1888.1	1890.2	1890.6
167.5°	1914.2	1913.5	1913.6	1913.6	1913.7	1913.8	1915.8	1917.8	1919.9	1921.9	1921.9
170°	1930.2	1929.4	1929.8	1930.2	1930.5	1930.8	1932.8	1934.9	1936.9	1938.9	1938.7
172.5°	1943.4	1942.7	1942.8	1942.9	1942.9	1943.0	1945.3	1947.6	1949.8	1952.2	1952.2
175°	1959.0	1958.0	1957.7	1957.3	1957.0	1956.7	1959.0	1961.5	1963.8	1966.2	1966.2
177.5°	1965.9	1965.2	1965.2	1965.2	1965.2	1965.2	1967.1	1969.0	1970.9	1972.8	1972.7
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



TEST NUMBER: P332740-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	549.8	549.5	548.1	547.9	548.1	549.5	549.8	550.2	550.8	552.7	550.4
5°	507.9	506.6	505.9	508.6	505.9	506.6	507.9	509.3	511.7	511.9	514.3
7.5°	476.3	475.3	473.2	472.5	473.2	475.3	476.3	477.2	479.5	481.6	485.1
10°	456.1	455.0	453.1	452.6	453.1	455.0	456.1	458.4	460.8	463.4	465.9
12.5°	436.5	434.6	434.2	434.7	434.2	434.6	436.5	439.7	445.9	445.9	446.4
15°	410.6	409.6	407.0	407.8	407.0	409.6	410.6	413.7	416.6	420.2	423.7
17.5°	385.1	384.0	380.7	383.5	380.7	384.0	385.1	386.8	390.4	395.5	400.9
20°	369.0	367.1	365.5	365.2	365.5	367.1	369.0	370.7	374.8	379.1	383.1
22.5°	353.8	352.0	351.8	350.3	351.8	352.0	353.8	356.4	360.4	362.8	366.7
25°	334.6	333.0	332.4	331.2	332.4	333.0	334.6	336.5	339.1	341.0	345.4
27.5°	319.9	319.1	318.2	318.6	318.2	319.1	319.9	320.1	321.3	323.9	326.4
30°	310.9	310.7	310.2	310.2	310.2	310.7	310.9	310.2	311.4	312.7	314.6
32.5°	303.5	303.5	303.8	303.8	303.8	303.5	303.5	302.4	302.9	303.3	304.2
35°	293.1	293.8	294.2	293.5	294.2	293.8	293.1	292.1	291.3	289.6	290.1
37.5°	283.6	284.3	285.0	285.8	285.0	284.3	283.6	281.6	279.8	278.4	276.7
40°	276.3	277.9	278.4	279.6	278.4	277.9	276.3	274.2	272.3	270.5	268.6
42.5°	269.4	271.2	272.5	272.8	272.5	271.2	269.4	267.2	264.4	262.4	259.6
45°	258.8	260.7	262.5	262.5	262.5	260.7	258.8	255.3	252.2	249.0	246.4
47.5°	247.9	250.6	252.4	252.8	252.4	250.6	247.9	244.2	239.8	236.0	232.3
50°	240.4	243.8	245.5	246.6	245.5	243.8	240.4	236.4	231.9	227.0	222.5
52.5°	233.2	236.5	238.7	239.3	238.7	236.5	233.2	228.1	222.7	217.5	213.5
55°	220.6	225.4	228.0	228.9	228.0	225.4	220.6	215.1	209.8	203.4	197.6
57.5°	208.7	213.2	216.2	216.9	216.2	213.2	208.7	202.3	195.5	188.6	182.5
60°	199.5	204.4	208.1	208.8	208.1	204.4	199.5	193.1	185.9	179.3	171.6
62.5°	190.2	195.2	198.6	200.5	198.6	195.2	190.2	183.4	175.6	168.1	160.5
65°	174.0	179.0	182.4	183.1	182.4	179.0	174.0	167.3	159.2	151.3	144.8
67.5°	156.3	161.4	163.5	164.9	163.5	161.4	156.3	150.0	142.0	133.8	126.4
70°	143.9	147.9	150.4	151.5	150.4	147.9	143.9	137.1	130.5	122.1	114.2
72.5°	129.8	134.0	136.7	137.0	136.7	134.0	129.8	124.0	116.9	109.2	102.2
75°	108.1	111.9	113.3	113.3	113.3	111.9	108.1	102.5	96.8	90.6	83.6
77.5°	85.5	87.5	89.3	89.7	89.3	87.5	85.5	81.6	76.9	70.6	65.4
80°	71.0	72.2	73.6	73.6	73.6	72.2	71.0	67.4	62.8	57.6	53.5
82.5°	56.0	57.1	58.5	58.3	58.5	57.1	56.0	53.2	49.5	45.9	42.2
85°	33.9	36.1	35.9	35.3	35.9	36.1	33.9	34.4	30.8	28.5	25.1
87.5°	24.0	24.3	25.0	25.5	25.0	24.3	24.0	23.3	21.3	20.0	18.8
90°	43.6	44.3	45.0	45.6	45.0	44.3	43.6	43.0	41.6	39.6	37.6
92.5°	66.3	66.8	67.2	67.6	67.2	66.8	66.3	65.9	65.1	63.9	62.7
95°	120.3	120.3	120.3	120.3	120.3	120.3	120.3	120.3	119.8	118.8	117.8
97.5°	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5	187.9	186.7	185.5
100°	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	235.7	235.0	234.3
102.5°	288.8	289.1	289.3	289.6	289.3	289.1	288.8	288.5	287.9	287.0	286.0
105°	368.5	369.5	370.5	371.5	370.5	369.5	368.5	367.5	366.5	365.5	364.5
107.5°	451.5	451.5	451.4	451.3	451.4	451.5	451.5	451.6	451.2	450.2	449.3
110°	505.5	506.5	507.6	508.6	507.6	506.5	505.5	504.5	504.3	505.0	505.7



TEST NUMBER: P332740-840

CATALOG NUMBER: S124DIW-S350D1560U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	566.4	566.6	566.8	567.0	566.8	566.6	566.4	566.2	566.2	566.3	566.4
115°	658.8	658.5	658.1	657.8	658.1	658.5	658.8	659.1	659.5	659.8	660.1
117.5°	746.3	745.7	745.0	744.3	745.0	745.7	746.3	747.0	747.9	749.1	750.2
120°	808.1	808.7	809.4	810.1	809.4	808.7	808.1	807.4	807.9	809.6	811.2
122.5°	868.6	867.4	866.2	864.9	866.2	867.4	868.6	869.8	871.0	872.1	873.2
125°	961.3	960.7	960.0	959.3	960.0	960.7	961.3	962.0	962.7	963.4	964.0
127.5°	1048.3	1047.8	1047.2	1046.7	1047.2	1047.8	1048.3	1048.8	1049.5	1050.2	1050.9
130°	1108.0	1106.7	1105.3	1104.0	1105.3	1106.7	1108.0	1109.3	1110.3	1111.1	1111.8
132.5°	1166.5	1166.0	1165.4	1164.9	1165.4	1166.0	1166.5	1167.0	1167.6	1168.3	1169.0
135°	1251.6	1250.6	1249.6	1248.6	1249.6	1250.6	1251.6	1252.6	1253.5	1254.3	1254.9
137.5°	1336.1	1336.3	1336.5	1336.7	1336.5	1336.3	1336.1	1335.8	1336.2	1337.1	1338.0
140°	1391.3	1390.9	1390.6	1390.3	1390.6	1390.9	1391.3	1391.6	1391.9	1392.3	1392.6
142.5°	1444.0	1444.0	1443.9	1443.8	1443.9	1444.0	1444.0	1444.1	1444.2	1444.2	1444.3
145°	1519.6	1518.6	1517.6	1516.6	1517.6	1518.6	1519.6	1520.7	1521.4	1521.7	1522.1
147.5°	1591.3	1591.0	1590.6	1590.3	1590.6	1591.0	1591.3	1591.6	1592.0	1592.3	1592.6
150°	1636.4	1636.1	1635.8	1635.4	1635.8	1636.1	1636.4	1636.8	1636.9	1636.9	1636.9
152.5°	1679.4	1678.6	1677.7	1676.8	1677.7	1678.6	1679.4	1680.3	1680.3	1679.5	1678.7
155°	1738.4	1737.1	1735.8	1734.3	1735.8	1737.1	1738.4	1739.8	1739.8	1738.4	1737.1
157.5°	1789.3	1788.2	1787.0	1785.8	1787.0	1788.2	1789.3	1790.4	1790.5	1789.5	1788.5
160°	1820.2	1818.5	1816.7	1815.0	1816.7	1818.5	1820.2	1821.8	1822.2	1821.2	1820.2
162.5°	1850.6	1849.0	1847.2	1845.5	1847.2	1849.0	1850.6	1852.3	1852.2	1850.4	1848.6
165°	1889.2	1887.8	1886.4	1885.1	1886.4	1887.8	1889.2	1890.6	1890.2	1888.1	1886.1
167.5°	1919.8	1917.6	1915.5	1913.4	1915.5	1917.6	1919.8	1921.9	1921.9	1919.9	1917.8
170°	1936.4	1934.0	1931.7	1929.2	1931.7	1934.0	1936.4	1938.7	1938.9	1936.9	1934.9
172.5°	1949.7	1947.4	1945.0	1942.7	1945.0	1947.4	1949.7	1952.2	1952.2	1949.8	1947.6
175°	1963.8	1961.5	1959.0	1956.7	1959.0	1961.5	1963.8	1966.2	1966.2	1963.8	1961.5
177.5°	1970.4	1968.3	1966.2	1964.0	1966.2	1968.3	1970.4	1972.7	1972.8	1970.9	1969.0
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



TEST NUMBER: P332740-840

CATALOG NUMBER: S124DIW-S350D1560U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	551.5	552.3	555.3	558.3	561.7	564.1	565.8	567.7	571.8	575.0	578.1
5°	516.7	518.0	524.1	528.5	535.8	542.3	547.3	552.8	559.3	568.2	576.2
7.5°	486.0	490.5	497.4	504.3	511.8	520.3	527.7	535.9	547.0	559.3	571.8
10°	468.7	473.7	480.9	489.0	496.1	505.9	515.0	524.8	537.6	552.3	567.1
12.5°	451.3	459.6	465.0	474.6	482.4	490.5	500.2	513.0	527.8	543.3	561.2
15°	429.5	434.0	444.5	449.8	460.8	473.2	482.8	495.6	510.0	530.6	550.7
17.5°	404.3	410.3	418.7	428.7	441.3	451.0	462.9	476.3	494.3	514.7	539.9
20°	387.9	392.9	403.2	414.1	427.6	437.9	450.5	463.4	482.1	503.8	530.1
22.5°	373.1	378.0	388.9	399.1	412.1	424.6	437.9	452.9	470.8	493.7	520.6
25°	350.4	356.8	366.4	376.9	389.3	403.6	418.0	431.4	450.5	474.6	503.3
27.5°	330.1	335.3	342.2	354.2	368.3	382.1	396.4	413.2	431.6	457.2	486.9
30°	317.2	321.9	328.9	339.8	353.0	367.8	382.6	398.9	418.0	443.3	473.7
32.5°	306.8	310.4	316.6	326.5	338.5	354.1	368.7	385.5	405.6	430.5	460.1
35°	291.5	294.7	297.1	306.4	317.2	331.5	346.3	364.3	383.6	407.3	436.9
37.5°	276.6	277.7	281.1	287.3	297.7	310.9	324.7	342.3	362.1	386.2	412.9
40°	267.4	267.9	270.0	275.8	284.9	297.3	310.7	328.1	347.0	369.7	396.3
42.5°	258.4	258.1	260.1	264.2	272.7	284.0	297.1	313.1	331.9	352.9	377.9
45°	244.3	244.3	243.8	247.1	254.1	265.1	276.1	291.3	307.1	327.7	348.7
47.5°	229.4	228.1	228.5	230.2	236.1	245.1	256.2	268.7	282.7	300.0	318.5
50°	219.8	217.9	217.2	219.1	224.4	232.3	242.9	253.8	267.0	282.3	298.0
52.5°	209.3	207.4	206.1	207.5	212.4	219.6	229.2	238.9	250.7	263.2	276.8
55°	193.1	191.0	190.3	190.8	194.3	200.1	208.1	217.0	225.9	236.1	245.7
57.5°	177.1	173.6	172.9	172.7	175.1	180.4	187.2	194.8	201.3	207.5	217.7
60°	166.6	162.3	160.9	160.6	162.5	166.8	173.0	180.7	185.2	189.6	198.3
62.5°	155.3	151.2	148.0	148.3	150.1	154.2	159.7	165.2	168.2	172.9	178.8
65°	137.9	132.7	130.3	129.6	130.5	133.8	138.1	141.7	145.1	147.0	152.7
67.5°	120.5	116.1	112.6	111.7	111.3	113.6	117.1	119.3	121.7	123.3	126.7
70°	108.3	104.4	100.2	98.7	98.5	100.4	103.7	104.0	107.3	108.1	111.6
72.5°	96.2	91.4	88.5	87.1	86.0	87.8	90.0	90.6	92.4	93.7	95.5
75°	77.5	73.8	71.0	68.9	68.2	69.1	69.1	70.3	71.5	72.2	74.3
77.5°	61.0	56.9	53.4	52.2	51.3	50.7	51.2	52.0	51.4	52.6	53.1
80°	49.5	45.1	42.5	42.1	40.6	39.5	39.2	39.9	39.0	39.5	40.9
82.5°	38.2	35.4	32.6	32.1	30.3	29.7	29.5	29.0	29.0	28.9	29.2
85°	22.7	21.0	19.1	18.0	17.2	16.1	16.1	15.6	15.0	14.5	14.8
87.5°	16.3	15.5	14.0	12.9	11.9	10.6	10.0	8.7	7.8	6.9	5.9
90°	35.5	33.5	30.8	28.1	25.3	22.7	19.5	15.8	12.0	8.3	4.5
92.5°	61.5	60.3	58.4	56.6	54.6	52.7	49.7	45.3	41.1	36.9	32.6
95°	116.7	115.7	113.4	111.0	108.7	106.2	103.5	100.5	97.5	94.4	91.4
97.5°	184.2	183.0	180.3	177.4	174.7	172.0	169.4	166.9	164.4	162.0	159.6
100°	233.7	233.0	229.9	226.9	223.9	220.8	218.6	217.2	215.9	214.5	213.2
102.5°	285.1	284.2	281.3	278.6	275.8	273.1	271.4	270.8	270.3	269.7	269.2
105°	363.5	362.4	361.0	359.7	358.3	357.0	356.2	355.8	355.5	355.2	354.8
107.5°	448.3	447.4	447.2	447.0	446.8	446.6	446.3	445.9	445.5	445.0	444.6
110°	506.3	507.1	507.4	507.8	508.1	508.5	508.3	507.6	506.9	506.2	505.5



TEST NUMBER: P332740-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	566.6	566.7	567.3	567.9	568.6	569.2	569.5	569.3	569.2	569.1	568.9
115°	660.6	660.9	661.6	662.2	662.9	663.6	663.9	663.9	663.9	663.9	663.9
117.5°	751.3	752.6	753.0	753.5	754.0	754.5	754.6	754.3	754.0	753.7	753.5
120°	812.9	814.7	815.7	816.7	817.7	818.7	818.5	817.2	815.9	814.5	813.1
122.5°	874.4	875.6	876.1	876.5	877.0	877.5	877.4	876.9	876.4	875.8	875.3
125°	964.7	965.4	965.7	966.0	966.4	966.7	966.9	966.9	966.9	966.9	966.9
127.5°	1051.5	1052.2	1052.8	1053.3	1053.8	1054.4	1054.1	1053.1	1052.1	1051.1	1050.1
130°	1112.5	1113.1	1113.1	1113.1	1113.1	1113.1	1112.6	1111.6	1110.5	1109.5	1108.5
132.5°	1169.7	1170.3	1170.6	1170.9	1171.1	1171.4	1171.2	1170.4	1169.7	1169.0	1168.2
135°	1255.6	1256.3	1256.3	1256.3	1256.3	1256.3	1255.3	1253.2	1251.1	1249.1	1247.1
137.5°	1338.8	1339.7	1339.2	1338.6	1338.1	1337.6	1336.8	1335.8	1334.8	1333.9	1333.0
140°	1392.9	1393.3	1393.3	1393.3	1393.3	1393.3	1392.9	1392.3	1391.6	1390.9	1390.3
142.5°	1444.4	1444.4	1444.7	1445.0	1445.2	1445.5	1445.3	1444.6	1444.0	1443.3	1442.6
145°	1522.4	1522.7	1522.4	1522.1	1521.7	1521.4	1520.6	1519.1	1517.8	1516.4	1515.1
147.5°	1592.8	1593.1	1593.4	1593.6	1593.9	1594.2	1593.5	1591.9	1590.2	1588.6	1587.0
150°	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.3	1634.9	1633.6	1632.1	1630.8
152.5°	1677.9	1677.1	1676.9	1676.6	1676.3	1676.1	1675.5	1674.7	1673.9	1673.0	1672.2
155°	1735.8	1734.3	1734.7	1735.0	1735.4	1735.8	1735.9	1735.9	1735.9	1735.9	1735.9
157.5°	1787.5	1786.5	1786.6	1786.6	1786.7	1786.8	1787.1	1787.7	1788.3	1788.9	1789.5
160°	1819.2	1818.2	1818.5	1818.8	1819.2	1819.5	1819.8	1820.2	1820.5	1820.8	1821.2
162.5°	1846.7	1844.9	1845.2	1845.6	1845.9	1846.2	1846.8	1847.8	1848.7	1849.6	1850.4
165°	1884.1	1882.1	1882.8	1883.4	1884.1	1884.8	1885.6	1886.6	1887.6	1888.6	1889.7
167.5°	1915.8	1913.8	1913.7	1913.6	1913.6	1913.5	1914.2	1915.6	1917.0	1918.4	1919.9
170°	1932.8	1930.8	1930.5	1930.2	1929.8	1929.4	1930.2	1931.8	1933.5	1935.2	1936.9
172.5°	1945.3	1943.0	1942.9	1942.9	1942.8	1942.7	1943.4	1944.8	1946.2	1947.6	1949.0
175°	1959.0	1956.7	1957.0	1957.3	1957.7	1958.0	1959.0	1960.8	1962.5	1964.1	1965.8
177.5°	1967.1	1965.2	1965.2	1965.2	1965.2	1965.2	1965.9	1967.2	1968.6	1969.9	1971.3
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



TEST NUMBER: P332740-840

CATALOG NUMBER: S124DIW-S350D1560U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	580.8	582.7	585.2	589.4	590.9	592.8	595.5	595.3	596.0	599.0	605.0
5°	582.9	590.4	597.5	606.1	615.2	621.2	629.2	634.3	639.3	645.8	656.8
7.5°	583.8	595.5	608.6	623.8	637.2	652.7	664.8	676.2	686.5	700.0	713.2
10°	582.5	598.2	615.2	634.3	654.6	671.9	687.4	705.1	720.1	736.6	751.4
12.5°	580.0	599.0	621.7	643.1	666.8	692.3	711.7	729.5	749.5	768.5	791.4
15°	574.3	600.4	626.9	655.1	686.9	716.3	744.3	767.4	788.9	817.4	847.3
17.5°	567.1	595.2	628.7	662.9	696.1	729.6	764.3	799.1	826.3	861.6	884.9
20°	560.5	593.0	627.4	668.0	701.3	743.1	777.5	811.1	848.5	883.6	911.6
22.5°	551.1	586.6	623.2	663.6	707.3	749.2	788.9	825.5	862.8	901.0	934.8
25°	539.2	571.5	614.7	660.6	704.1	749.5	795.2	841.0	881.2	921.6	953.1
27.5°	519.0	559.7	600.0	647.3	695.6	747.0	795.9	843.8	886.0	919.2	938.7
30°	508.6	544.0	587.7	635.3	687.6	742.9	793.8	840.8	880.0	906.6	914.4
32.5°	493.3	529.8	572.6	621.9	677.3	734.1	787.0	831.4	864.1	878.1	868.6
35°	470.6	503.6	546.8	597.2	654.9	715.3	767.7	805.2	821.9	808.8	776.1
37.5°	443.3	476.1	519.5	569.1	628.6	690.1	737.4	764.5	758.9	726.2	677.4
40°	424.2	454.8	496.1	549.7	607.7	669.4	711.0	725.6	710.3	663.5	611.6
42.5°	403.0	432.8	474.3	526.0	587.5	644.4	680.6	681.9	656.2	600.2	548.2
45°	370.7	399.1	438.3	492.1	549.0	602.5	626.4	614.7	567.3	513.4	461.0
47.5°	338.8	363.5	402.1	453.1	507.2	552.2	564.1	543.0	492.6	440.1	391.6
50°	315.5	340.3	376.7	425.5	477.6	516.4	522.2	494.2	444.7	391.9	354.0
52.5°	293.1	317.8	352.7	397.9	445.6	480.7	480.9	448.6	399.3	352.2	316.9
55°	260.2	282.5	314.1	354.5	397.0	424.4	417.8	384.4	341.5	300.6	269.8
57.5°	228.6	248.0	277.0	310.7	348.2	370.9	359.8	327.6	289.4	254.7	231.4
60°	208.1	226.6	251.5	283.3	314.8	332.4	321.9	292.8	257.6	229.6	209.3
62.5°	188.2	203.8	227.7	255.3	284.6	297.6	288.3	259.5	229.1	203.9	187.3
65°	160.2	172.8	191.9	215.6	236.8	248.1	240.2	213.4	190.3	172.1	159.0
67.5°	133.8	143.7	158.2	177.2	195.3	201.4	194.2	175.5	155.9	141.4	132.1
70°	115.6	125.0	137.1	151.8	167.5	174.0	166.8	152.0	136.0	122.6	113.5
72.5°	99.8	107.0	117.3	129.8	142.1	148.6	143.7	129.5	115.9	105.9	98.3
75°	76.0	82.2	89.4	98.3	107.8	112.1	107.8	98.0	88.7	81.3	75.7
77.5°	55.2	58.6	64.1	70.8	76.7	80.0	76.2	69.7	63.9	58.9	56.1
80°	42.1	44.4	48.3	53.5	57.6	60.7	58.3	52.8	48.3	44.9	43.7
82.5°	30.6	32.2	34.7	38.6	41.3	42.9	41.9	37.9	36.1	33.1	31.9
85°	15.0	16.1	17.7	18.9	21.3	21.5	21.7	20.1	18.4	17.7	16.8
87.5°	6.9	7.8	9.1	10.4	11.8	12.5	12.9	13.4	13.2	13.4	13.0
90°	8.3	12.0	15.8	19.5	22.7	25.3	28.1	30.8	33.5	35.5	37.6
92.5°	36.9	41.1	45.3	49.7	52.7	54.6	56.6	58.4	60.3	61.5	62.7
95°	94.4	97.5	100.5	103.5	106.2	108.7	111.0	113.4	115.7	116.7	117.8
97.5°	162.0	164.4	166.9	169.4	172.0	174.7	177.4	180.3	183.0	184.2	185.5
100°	214.5	215.9	217.2	218.6	220.8	223.9	226.9	229.9	233.0	233.7	234.3
102.5°	269.7	270.3	270.8	271.4	273.1	275.8	278.6	281.3	284.2	285.1	286.0
105°	355.2	355.5	355.8	356.2	357.0	358.3	359.7	361.0	362.4	363.5	364.5
107.5°	445.0	445.5	445.9	446.3	446.6	446.8	447.0	447.2	447.4	448.3	449.3
110°	506.2	506.9	507.6	508.3	508.5	508.1	507.8	507.4	507.1	506.3	505.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	569.1	569.2	569.3	569.5	569.2	568.6	567.9	567.3	566.7	566.6	566.4
115°	663.9	663.9	663.9	663.9	663.6	662.9	662.2	661.6	660.9	660.6	660.1
117.5°	753.7	754.0	754.3	754.6	754.5	754.0	753.5	753.0	752.6	751.3	750.2
120°	814.5	815.9	817.2	818.5	818.7	817.7	816.7	815.7	814.7	812.9	811.2
122.5°	875.8	876.4	876.9	877.4	877.5	877.0	876.5	876.1	875.6	874.4	873.2
125°	966.9	966.9	966.9	966.9	966.7	966.4	966.0	965.7	965.4	964.7	964.0
127.5°	1051.1	1052.1	1053.1	1054.1	1054.4	1053.8	1053.3	1052.8	1052.2	1051.5	1050.9
130°	1109.5	1110.5	1111.6	1112.6	1113.1	1113.1	1113.1	1113.1	1113.1	1112.5	1111.8
132.5°	1169.0	1169.7	1170.4	1171.2	1171.4	1171.1	1170.9	1170.6	1170.3	1169.7	1169.0
135°	1249.1	1251.1	1253.2	1255.3	1256.3	1256.3	1256.3	1256.3	1256.3	1255.6	1254.9
137.5°	1333.9	1334.8	1335.8	1336.8	1337.6	1338.1	1338.6	1339.2	1339.7	1338.8	1338.0
140°	1390.9	1391.6	1392.3	1392.9	1393.3	1393.3	1393.3	1393.3	1393.3	1392.9	1392.6
142.5°	1443.3	1444.0	1444.6	1445.3	1445.5	1445.2	1445.0	1444.7	1444.4	1444.4	1444.3
145°	1516.4	1517.8	1519.1	1520.6	1521.4	1521.7	1522.1	1522.4	1522.7	1522.4	1522.1
147.5°	1588.6	1590.2	1591.9	1593.5	1594.2	1593.9	1593.6	1593.4	1593.1	1592.8	1592.6
150°	1632.1	1633.6	1634.9	1636.3	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9	1636.9
152.5°	1673.0	1673.9	1674.7	1675.5	1676.1	1676.3	1676.6	1676.9	1677.1	1677.9	1678.7
155°	1735.9	1735.9	1735.9	1735.9	1735.8	1735.4	1735.0	1734.7	1734.3	1735.8	1737.1
157.5°	1788.9	1788.3	1787.7	1787.1	1786.8	1786.7	1786.6	1786.6	1786.5	1787.5	1788.5
160°	1820.8	1820.5	1820.2	1819.8	1819.5	1819.2	1818.8	1818.5	1818.2	1819.2	1820.2
162.5°	1849.6	1848.7	1847.8	1846.8	1846.2	1845.9	1845.6	1845.2	1844.9	1846.7	1848.6
165°	1888.6	1887.6	1886.6	1885.6	1884.8	1884.1	1883.4	1882.8	1882.1	1884.1	1886.1
167.5°	1918.4	1917.0	1915.6	1914.2	1913.5	1913.6	1913.6	1913.7	1913.8	1915.8	1917.8
170°	1935.2	1933.5	1931.8	1930.2	1929.4	1929.8	1930.2	1930.5	1930.8	1932.8	1934.9
172.5°	1947.6	1946.2	1944.8	1943.4	1942.7	1942.8	1942.9	1942.9	1943.0	1945.3	1947.6
175°	1964.1	1962.5	1960.8	1959.0	1958.0	1957.7	1957.3	1957.0	1956.7	1959.0	1961.5
177.5°	1969.9	1968.6	1967.2	1965.9	1965.2	1965.2	1965.2	1965.2	1965.2	1967.1	1969.0
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	576.9	576.9	576.9	576.9	576.9	576.9	576.9
2.5°	608.1	608.5	610.3	611.6	612.0	613.9	614.0
5°	661.6	665.6	673.5	674.2	675.4	681.7	676.8
7.5°	724.2	734.5	741.3	747.5	749.6	752.3	751.8
10°	764.4	779.6	787.3	799.5	799.9	803.0	801.1
12.5°	804.7	822.4	836.4	838.7	848.9	850.5	853.1
15°	861.8	880.7	900.1	907.1	921.1	924.4	929.7
17.5°	915.5	934.8	948.5	966.3	972.2	979.9	974.6
20°	945.0	966.0	983.3	997.3	1003.3	1007.6	1007.1
22.5°	962.8	984.0	997.9	1008.7	1014.2	1016.0	1015.9
25°	973.9	986.1	990.5	994.5	988.3	986.1	987.0
27.5°	942.9	939.8	928.6	913.8	898.6	886.5	879.8
30°	900.3	881.7	864.7	835.1	819.8	810.7	802.5
32.5°	839.9	810.3	777.7	750.5	733.2	719.7	717.7
35°	736.4	692.0	652.0	618.7	601.6	587.0	583.6
37.5°	626.0	579.9	543.9	514.6	496.1	485.8	476.3
40°	552.8	513.1	477.8	452.9	438.8	431.4	425.5
42.5°	496.4	460.2	425.0	406.1	393.3	388.8	385.3
45°	418.5	384.8	360.4	346.1	338.7	331.0	327.4
47.5°	356.1	328.7	312.7	300.4	292.5	287.9	285.7
50°	320.7	298.3	284.0	274.6	267.4	263.9	262.0
52.5°	289.4	270.9	258.9	251.5	246.6	244.0	243.2
55°	249.2	235.2	227.5	221.1	217.5	215.1	214.2
57.5°	216.7	205.8	199.7	194.3	192.9	191.0	190.3
60°	195.3	186.9	181.7	178.0	176.8	174.5	174.9
62.5°	176.3	169.5	165.0	163.0	161.4	159.4	160.1
65°	149.2	144.1	141.7	139.9	137.9	136.7	137.6
67.5°	125.1	121.7	118.5	117.3	116.4	116.2	115.2
70°	109.5	106.6	103.7	103.0	103.0	102.1	101.8
72.5°	94.3	92.3	90.4	89.8	89.1	89.5	88.5
75°	72.9	71.2	70.5	69.8	69.6	69.6	68.9
77.5°	53.8	52.6	51.5	51.5	50.6	50.3	50.2
80°	40.9	40.4	39.5	39.5	39.0	39.2	38.7
82.5°	30.7	30.1	29.9	29.5	28.8	28.9	28.4
85°	16.5	15.8	15.6	14.8	14.3	14.8	14.3
87.5°	13.6	13.8	13.9	13.7	13.6	13.7	13.3
90°	39.6	41.6	43.0	43.6	44.3	45.0	45.6
92.5°	63.9	65.1	65.9	66.3	66.8	67.2	67.6
95°	118.8	119.8	120.3	120.3	120.3	120.3	120.3
97.5°	186.7	187.9	188.5	188.5	188.5	188.5	188.5
100°	235.0	235.7	236.0	236.0	236.0	236.0	236.0
102.5°	287.0	287.9	288.5	288.8	289.1	289.3	289.6
105°	365.5	366.5	367.5	368.5	369.5	370.5	371.5
107.5°	450.2	451.2	451.6	451.5	451.5	451.4	451.3
110°	505.0	504.3	504.5	505.5	506.5	507.6	508.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	566.3	566.2	566.2	566.4	566.6	566.8	567.0
115°	659.8	659.5	659.1	658.8	658.5	658.1	657.8
117.5°	749.1	747.9	747.0	746.3	745.7	745.0	744.3
120°	809.6	807.9	807.4	808.1	808.7	809.4	810.1
122.5°	872.1	871.0	869.8	868.6	867.4	866.2	864.9
125°	963.4	962.7	962.0	961.3	960.7	960.0	959.3
127.5°	1050.2	1049.5	1048.8	1048.3	1047.8	1047.2	1046.7
130°	1111.1	1110.3	1109.3	1108.0	1106.7	1105.3	1104.0
132.5°	1168.3	1167.6	1167.0	1166.5	1166.0	1165.4	1164.9
135°	1254.3	1253.5	1252.6	1251.6	1250.6	1249.6	1248.6
137.5°	1337.1	1336.2	1335.8	1336.1	1336.3	1336.5	1336.7
140°	1392.3	1391.9	1391.6	1391.3	1390.9	1390.6	1390.3
142.5°	1444.2	1444.2	1444.1	1444.0	1444.0	1443.9	1443.8
145°	1521.7	1521.4	1520.7	1519.6	1518.6	1517.6	1516.6
147.5°	1592.3	1592.0	1591.6	1591.3	1591.0	1590.6	1590.3
150°	1636.9	1636.9	1636.8	1636.4	1636.1	1635.8	1635.4
152.5°	1679.5	1680.3	1680.3	1679.4	1678.6	1677.7	1676.8
155°	1738.4	1739.8	1739.8	1738.4	1737.1	1735.8	1734.3
157.5°	1789.5	1790.5	1790.4	1789.3	1788.2	1787.0	1785.8
160°	1821.2	1822.2	1821.8	1820.2	1818.5	1816.7	1815.0
162.5°	1850.4	1852.2	1852.3	1850.6	1849.0	1847.2	1845.5
165°	1888.1	1890.2	1890.6	1889.2	1887.8	1886.4	1885.1
167.5°	1919.9	1921.9	1921.9	1919.8	1917.6	1915.5	1913.4
170°	1936.9	1938.9	1938.7	1936.4	1934.0	1931.7	1929.2
172.5°	1949.8	1952.2	1952.2	1949.7	1947.4	1945.0	1942.7
175°	1963.8	1966.2	1966.2	1963.8	1961.5	1959.0	1956.7
177.5°	1970.9	1972.8	1972.7	1970.4	1968.3	1966.2	1964.0
180°	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8	1968.8

(END OF REPORT)