

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: P331946-840

Luminaire Tested: **S123DIP-S560D1195U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331946-840
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: S123DIP-S560D1195U840-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7229.7 lumens
Efficiency: N/A
Efficacy: 146.4 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

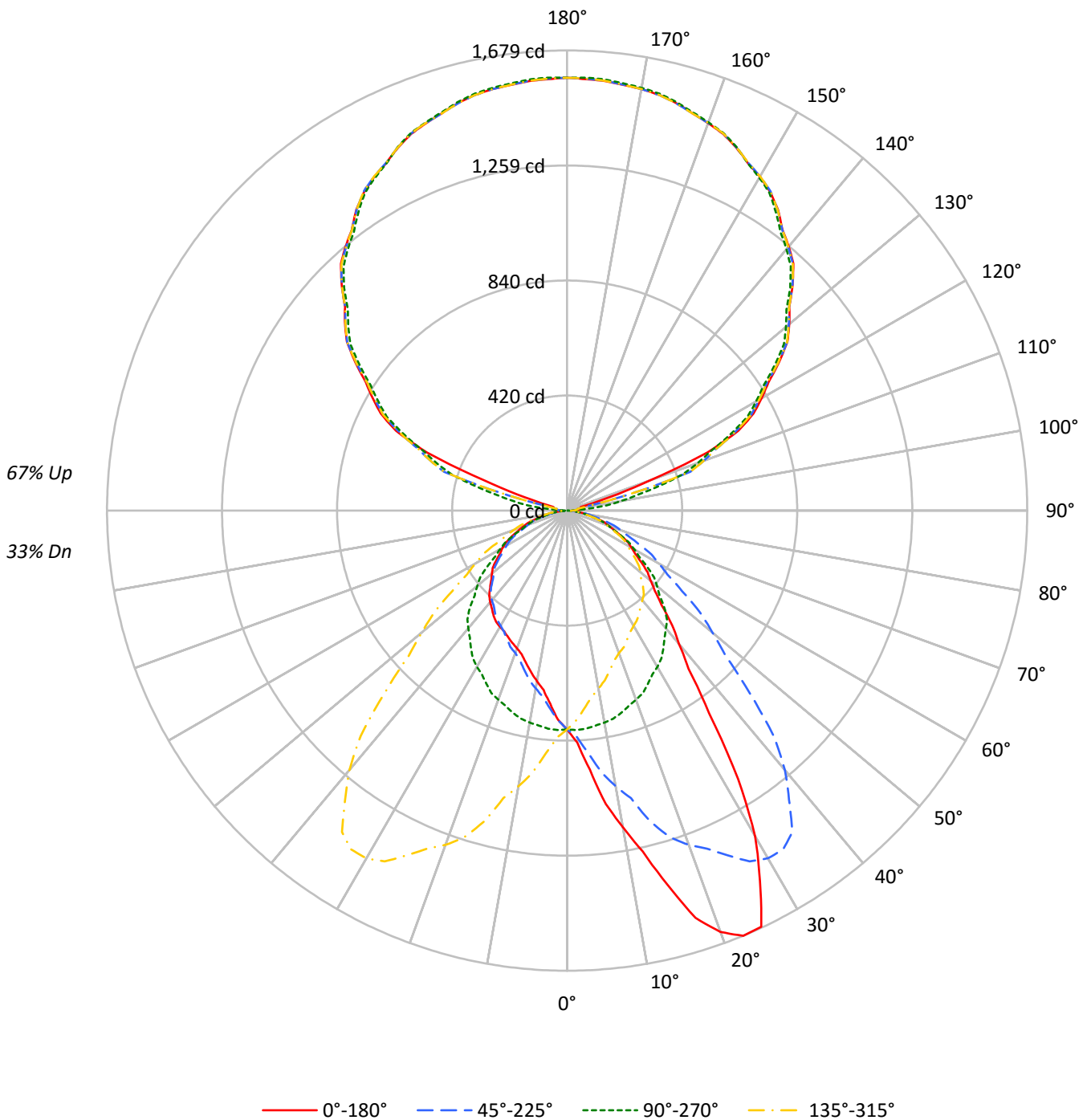
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	94	90	86	83	85	81	78	75	65	63	61	50	49	48	36	36	35	28
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	31	30	24
3	78	69	62	57	70	63	57	52	51	46	43	39	36	34	29	27	25	21
4	72	61	54	48	64	56	49	44	45	40	37	35	32	29	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	16
6	61	49	41	36	54	45	38	33	36	31	27	28	25	22	21	19	17	14
7	56	44	36	31	50	40	33	29	33	28	24	26	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	18	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10
10	45	33	26	22	41	30	24	20	25	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8593	8593	8593	8593
5°	10247	8630	7648	8630
10°	12826	8587	6908	8587
15°	15731	8517	6430	8517
20°	18741	8409	6123	8409
25°	19899	8278	6055	8278
30°	17056	8182	6087	8182
35°	11862	8046	6150	8046
40°	8934	7886	6131	7886
45°	7419	7648	6052	7648
50°	6646	7164	5998	7164
55°	6212	6641	5923	6641
60°	5828	6097	5862	6097
65°	5476	5555	5675	5555
70°	5136	4941	5404	4941
75°	4600	4325	4957	4325
80°	4023	3552	4271	3552
85°	3149	2581	2865	2581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	1.1
10°-20°	252.2	3.5
20°-30°	423.2	5.9
30°-40°	479.2	6.6
40°-50°	429.7	5.9
50°-60°	346.8	4.8
60°-70°	241.7	3.3
70°-80°	127.0	1.8
80°-90°	35.5	0.5
90°-100°	57.4	0.8
100°-110°	273.6	3.8
110°-120°	657.3	9.1
120°-130°	837.0	11.6
130°-140°	894.3	12.4
140°-150°	836.3	11.6
150°-160°	674.6	9.3
160°-170°	435.4	6.0
170°-180°	150.0	2.1
0°-30°	754.0	10.4
0°-40°	1233.2	17.1
0°-60°	2009.7	27.8
0°-90°	2413.9	33.4
90°-120°	988.3	13.7
90°-150°	3555.9	49.2
90°-180°	4816.0	66.6
0°-180°	7229.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	798	798	798	798	798	
5°	948	799	708	799	948	98
15°	1412	764	577	764	1412	408
25°	1676	697	510	697	1676	735
35°	903	612	468	612	903	586
45°	487	502	398	502	487	386
55°	331	354	316	354	331	297
65°	215	218	223	218	215	214
75°	111	104	119	104	111	118
85°	26	21	23	21	26	31
90°	35	1	35	1	35	17
95°	44	72	44	72	44	37
105°	52	350	52	350	52	118
115°	690	656	690	656	690	637
125°	943	924	943	924	943	842
135°	1163	1151	1163	1151	1163	897
145°	1341	1328	1341	1328	1341	837
155°	1461	1463	1461	1463	1461	674
165°	1539	1543	1539	1543	1539	435
175°	1573	1579	1573	1579	1573	150
180°	1579	1579	1579	1579	1579	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	847.2	846.6	845.1	846.3	843.7	840.4	840.1	837.0	828.0	827.4	825.0
5°	948.4	945.2	944.9	944.5	939.1	931.7	917.8	916.7	898.1	888.8	877.6
7.5°	1079.4	1081.1	1075.4	1070.5	1053.9	1043.0	1028.0	1009.0	986.1	963.0	947.6
10°	1173.5	1186.2	1170.3	1159.5	1149.5	1130.5	1108.5	1081.1	1053.6	1021.5	997.1
12.5°	1274.3	1280.6	1277.5	1267.2	1251.6	1222.7	1183.7	1153.5	1128.1	1074.7	1053.1
15°	1411.7	1435.3	1420.3	1385.4	1386.2	1358.8	1307.7	1251.6	1221.8	1175.0	1111.2
17.5°	1558.1	1561.0	1554.6	1525.6	1506.2	1468.5	1421.4	1367.7	1307.3	1250.7	1183.0
20°	1636.1	1633.8	1620.2	1605.1	1571.9	1542.5	1491.0	1431.1	1353.7	1298.0	1224.2
22.5°	1679.4	1675.5	1669.1	1656.5	1628.8	1597.2	1551.1	1485.5	1411.9	1335.1	1249.8
25°	1675.5	1680.5	1681.3	1677.8	1668.2	1649.2	1612.9	1560.6	1487.1	1388.6	1299.6
27.5°	1523.9	1531.0	1551.7	1570.0	1590.5	1611.3	1608.6	1582.7	1528.3	1443.1	1334.3
30°	1372.3	1356.8	1395.1	1443.4	1476.3	1534.3	1566.8	1568.7	1538.2	1465.1	1359.1
32.5°	1161.8	1178.9	1195.8	1255.3	1327.2	1392.3	1456.9	1509.0	1515.0	1466.3	1373.6
35°	902.7	924.0	954.9	985.9	1063.3	1129.7	1243.4	1342.5	1421.4	1431.8	1374.9
37.5°	727.4	738.0	757.5	788.5	839.1	918.1	1006.0	1131.1	1245.5	1330.5	1334.2
40°	635.8	638.9	661.0	684.6	725.6	790.5	869.9	980.5	1117.4	1236.2	1285.7
42.5°	567.1	574.0	583.3	606.0	638.6	687.5	761.2	852.7	978.2	1114.8	1211.6
45°	487.4	495.0	500.9	515.9	539.2	572.0	623.5	707.0	802.5	943.7	1074.1
47.5°	434.5	435.2	439.5	450.9	466.7	491.4	527.8	581.4	669.1	783.6	917.5
50°	396.9	403.0	404.6	413.4	425.9	444.0	474.2	519.8	591.8	692.4	815.4
52.5°	370.2	372.0	376.4	382.8	393.6	407.8	433.9	469.7	526.1	611.9	725.0
55°	331.0	331.0	335.4	340.3	346.6	359.3	376.7	403.0	446.0	512.5	606.1
57.5°	294.9	296.8	299.8	301.3	306.6	315.1	329.6	349.6	381.6	432.8	507.3
60°	270.7	274.2	273.9	276.9	281.6	288.1	300.5	316.8	345.4	386.4	449.1
62.5°	249.7	249.4	249.4	253.1	257.7	264.0	272.1	286.1	310.4	346.8	400.1
65°	215.0	214.3	217.0	219.3	220.9	225.5	231.7	244.1	260.3	287.4	328.7
67.5°	184.3	182.0	183.5	184.3	186.9	190.6	196.3	204.0	216.9	238.6	269.8
70°	163.2	161.3	160.9	161.7	164.0	166.7	171.0	178.3	190.3	207.7	230.6
72.5°	141.6	140.3	140.2	141.9	143.0	144.7	147.7	154.5	164.0	177.0	198.3
75°	110.6	110.6	110.6	111.0	112.2	113.7	116.0	119.5	126.8	136.1	150.5
77.5°	82.9	82.8	82.4	82.3	84.0	84.7	85.2	88.5	92.6	98.9	109.3
80°	64.9	63.0	63.8	64.9	65.7	66.1	67.3	68.1	71.6	75.0	82.4
82.5°	48.3	46.7	46.8	48.6	48.8	49.1	50.3	51.4	52.7	55.8	59.8
85°	25.5	25.5	26.0	26.0	26.3	26.0	27.1	27.5	27.5	29.4	31.7
87.5°	16.4	15.6	15.8	16.1	15.6	15.8	15.9	16.0	16.1	16.2	15.8
90°	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.2	29.2	28.2	24.7
92.5°	39.0	38.7	38.4	38.0	37.7	36.8	35.0	33.3	31.7	30.0	27.5
95°	44.5	44.5	44.5	44.5	44.5	43.6	41.8	40.0	38.2	36.4	33.5
97.5°	48.4	48.1	47.9	47.6	47.3	46.2	44.0	41.9	39.9	37.8	35.6
100°	49.3	49.0	48.8	48.5	48.3	47.1	44.9	42.9	40.8	38.7	37.4
102.5°	50.2	49.8	49.3	48.8	48.4	51.3	57.8	64.2	70.7	77.2	121.6
105°	51.6	51.1	50.6	50.1	49.6	72.3	118.5	164.6	210.8	256.9	280.4
107.5°	162.2	196.9	231.7	266.5	301.2	335.6	369.4	403.2	437.1	471.0	467.3
110°	322.7	359.9	397.2	434.5	471.8	494.7	503.3	511.9	520.6	529.2	526.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	553.5	561.4	569.3	577.1	585.0	589.0	588.8	588.5	588.4	588.2	585.4
115°	689.8	688.8	687.8	686.7	685.7	683.9	681.3	678.6	676.1	673.5	671.2
117.5°	766.4	766.2	766.0	765.8	765.6	764.4	762.3	760.2	758.1	756.1	754.9
120°	818.9	818.9	818.9	818.9	818.9	817.9	815.8	813.7	811.6	809.5	808.8
122.5°	870.6	870.4	870.1	869.9	869.7	868.9	867.5	866.0	864.5	863.0	862.0
125°	943.3	942.8	942.3	941.7	941.2	940.7	940.2	939.7	939.2	938.6	937.6
127.5°	1013.2	1013.8	1014.3	1014.8	1015.3	1015.1	1014.3	1013.5	1012.7	1011.8	1010.6
130°	1058.3	1058.8	1059.3	1059.9	1060.4	1060.2	1059.0	1058.0	1057.0	1055.9	1054.9
132.5°	1099.5	1100.3	1101.1	1101.8	1102.5	1102.4	1101.4	1100.2	1099.2	1098.2	1097.3
135°	1162.8	1163.5	1164.3	1165.1	1165.9	1165.9	1165.1	1164.3	1163.5	1162.8	1161.6
137.5°	1222.0	1222.6	1223.1	1223.7	1224.2	1223.8	1222.5	1221.3	1220.0	1218.8	1218.2
140°	1257.8	1258.3	1258.8	1259.3	1259.8	1259.6	1258.5	1257.5	1256.5	1255.4	1254.7
142.5°	1290.6	1291.3	1292.0	1292.8	1293.5	1293.4	1292.6	1291.8	1291.0	1290.1	1289.4
145°	1341.0	1341.0	1341.0	1341.0	1341.0	1340.8	1340.3	1339.8	1339.2	1338.7	1338.2
147.5°	1378.6	1379.8	1381.0	1382.2	1383.4	1383.7	1383.2	1382.7	1382.2	1381.6	1381.1
150°	1406.7	1407.5	1408.4	1409.1	1409.9	1410.0	1409.5	1409.0	1408.5	1408.0	1407.4
152.5°	1429.3	1430.5	1431.7	1432.9	1434.1	1434.2	1433.3	1432.3	1431.4	1430.5	1430.2
155°	1460.8	1462.3	1463.9	1465.4	1466.9	1467.1	1465.8	1464.5	1463.2	1461.9	1461.7
157.5°	1487.2	1489.2	1491.3	1493.4	1495.4	1495.6	1494.0	1492.5	1491.0	1489.3	1489.7
160°	1504.1	1505.9	1507.8	1509.6	1511.5	1511.6	1510.0	1508.4	1506.9	1505.3	1505.6
162.5°	1520.0	1521.7	1523.3	1524.9	1526.5	1526.5	1524.7	1523.0	1521.2	1519.3	1519.6
165°	1539.3	1541.2	1543.0	1544.8	1546.6	1546.5	1544.4	1542.4	1540.2	1538.1	1538.4
167.5°	1553.2	1555.3	1557.3	1559.4	1561.6	1561.6	1559.4	1557.3	1555.3	1553.2	1553.2
170°	1561.7	1563.7	1565.8	1567.9	1569.9	1569.9	1567.9	1565.8	1563.7	1561.7	1561.7
172.5°	1566.3	1568.6	1570.9	1573.2	1575.5	1575.6	1573.5	1571.5	1569.3	1567.2	1567.0
175°	1573.4	1575.5	1577.5	1579.6	1581.7	1581.9	1580.0	1578.2	1576.4	1574.5	1574.3
177.5°	1575.5	1577.5	1579.6	1581.8	1583.8	1584.0	1582.4	1580.6	1579.0	1577.3	1577.1
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	823.0	820.6	818.1	813.7	810.0	804.8	803.2	801.4	795.9	790.8	787.2
5°	873.3	864.0	850.5	838.1	828.1	814.6	806.8	798.7	787.1	776.7	768.1
7.5°	925.9	907.7	886.7	863.9	842.7	822.2	805.8	791.1	774.9	759.4	747.5
10°	967.8	941.4	912.0	880.3	853.2	826.9	804.9	785.6	764.7	746.5	731.3
12.5°	1015.3	976.3	935.8	897.3	865.3	828.8	802.1	777.5	753.9	732.0	715.0
15°	1071.8	1022.3	974.3	921.3	872.5	826.9	795.2	764.3	736.8	714.4	692.7
17.5°	1123.1	1067.0	1003.8	939.4	880.6	826.5	782.0	747.1	712.8	685.3	663.7
20°	1152.2	1088.3	1016.8	949.9	884.9	824.6	775.9	734.1	697.0	667.9	643.6
22.5°	1177.3	1102.6	1028.5	957.0	884.6	819.6	764.5	721.4	681.2	652.8	626.9
25°	1203.3	1113.9	1039.7	955.7	874.8	807.6	745.7	697.0	656.7	623.5	596.8
27.5°	1225.6	1113.2	1025.0	934.7	859.6	792.1	726.1	673.8	631.1	594.9	567.8
30°	1240.4	1114.7	1009.9	920.5	844.8	775.1	710.8	658.3	613.4	576.6	551.2
32.5°	1249.7	1113.8	995.9	900.7	821.2	759.6	694.5	640.1	593.9	557.8	533.2
35°	1255.1	1106.9	972.0	859.8	783.3	723.3	668.7	612.3	563.9	530.3	502.4
37.5°	1244.3	1092.7	944.1	820.3	736.5	677.5	631.6	583.5	537.2	500.2	476.2
40°	1227.2	1083.4	922.4	792.5	704.3	647.4	608.4	561.2	515.5	480.4	458.0
42.5°	1194.8	1064.5	898.7	761.5	670.9	614.0	578.0	538.7	495.4	462.4	440.0
45°	1115.5	1023.4	862.9	715.2	621.6	562.8	531.1	502.4	463.3	431.2	411.9
47.5°	1005.4	961.6	811.2	666.2	570.1	513.5	480.5	457.5	428.9	403.0	384.5
50°	929.1	910.9	776.3	632.8	535.6	480.4	448.7	427.8	407.3	381.3	364.4
52.5°	840.8	852.0	735.4	598.1	500.7	446.4	416.5	399.9	381.3	360.0	345.2
55°	716.7	757.3	664.9	540.0	448.7	396.9	368.6	353.9	343.1	327.2	314.5
57.5°	600.5	652.1	588.5	480.0	397.5	352.8	325.8	309.7	302.8	294.5	284.5
60°	531.4	582.5	534.1	439.8	363.1	320.6	296.7	283.2	276.2	270.3	261.9
62.5°	469.9	521.5	480.9	398.9	329.4	290.0	269.1	255.9	250.4	247.4	240.1
65°	385.3	429.7	402.6	335.4	281.1	246.4	227.4	218.1	213.1	212.0	207.3
67.5°	313.6	347.4	327.7	278.1	235.5	205.4	189.3	181.5	177.6	177.2	173.7
70°	266.5	298.2	283.2	238.2	201.5	177.9	164.0	157.0	154.7	154.3	152.4
72.5°	229.9	252.1	240.1	202.7	174.3	152.9	142.6	135.3	132.7	133.3	132.0
75°	170.2	186.8	179.9	153.9	131.1	117.1	108.7	104.0	101.7	102.9	101.3
77.5°	122.5	133.0	126.7	108.8	94.7	84.6	78.4	75.5	73.4	73.3	72.6
80°	92.4	98.7	95.1	84.3	72.7	64.2	59.2	57.3	56.0	55.7	55.3
82.5°	65.8	71.1	67.0	59.6	51.7	46.6	43.7	41.2	40.3	40.5	40.2
85°	33.2	35.2	33.6	29.0	26.0	23.6	22.0	20.9	20.1	20.5	19.7
87.5°	15.8	15.3	13.7	11.9	10.8	9.3	8.8	7.7	7.6	8.1	8.3
90°	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2	3.7	6.4	9.0
92.5°	24.9	22.4	19.8	18.9	19.6	20.4	21.1	21.8	21.1	20.4	19.6
95°	30.6	27.8	24.9	28.8	39.5	50.2	60.9	71.6	60.9	50.2	39.5
97.5°	75.3	94.1	112.9	124.6	129.5	134.2	139.1	143.8	139.1	134.2	129.5
100°	120.1	160.8	201.4	219.1	213.9	208.7	203.5	198.2	203.5	208.7	213.9
102.5°	166.0	210.5	254.9	275.3	271.5	267.7	264.0	260.2	264.0	267.7	271.5
105°	303.9	327.3	350.8	361.1	358.2	355.4	352.5	349.6	352.5	355.4	358.2
107.5°	463.5	459.9	456.2	453.1	450.8	448.6	446.3	443.9	446.3	448.6	450.8
110°	523.4	520.6	517.7	515.2	513.1	511.0	509.0	506.9	509.0	511.0	513.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	582.6	579.7	576.8	574.4	572.6	570.7	568.8	566.9	568.8	570.7	572.6
115°	668.7	666.4	664.1	662.1	660.6	658.9	657.4	655.9	657.4	658.9	660.6
117.5°	753.7	752.5	751.2	749.7	747.8	745.8	743.9	741.9	743.9	745.8	747.8
120°	808.0	807.2	806.5	804.9	802.5	800.2	797.8	795.5	797.8	800.2	802.5
122.5°	861.1	860.1	859.1	857.7	855.7	853.7	851.8	849.9	851.8	853.7	855.7
125°	936.5	935.4	934.4	932.9	930.8	928.7	926.7	924.5	926.7	928.7	930.8
127.5°	1009.4	1008.0	1006.8	1005.1	1003.1	1001.0	998.9	996.8	998.9	1001.0	1003.1
130°	1053.9	1052.8	1051.8	1050.2	1048.1	1046.0	1044.0	1041.9	1044.0	1046.0	1048.1
132.5°	1096.5	1095.7	1094.8	1093.4	1091.3	1089.2	1087.1	1085.0	1087.1	1089.2	1091.3
135°	1160.6	1159.6	1158.5	1157.2	1155.7	1154.1	1152.6	1150.9	1152.6	1154.1	1155.7
137.5°	1217.7	1217.1	1216.5	1215.3	1213.3	1211.2	1209.3	1207.3	1209.3	1211.2	1213.3
140°	1253.8	1253.0	1252.2	1251.1	1249.5	1248.0	1246.4	1244.9	1246.4	1248.0	1249.5
142.5°	1288.6	1287.8	1287.0	1285.9	1284.2	1282.7	1281.1	1279.6	1281.1	1282.7	1284.2
145°	1337.7	1337.2	1336.7	1335.4	1333.6	1331.8	1330.0	1328.2	1330.0	1331.8	1333.6
147.5°	1380.6	1380.1	1379.6	1378.7	1377.5	1376.3	1375.1	1373.9	1375.1	1376.3	1377.5
150°	1406.8	1406.3	1405.8	1405.2	1404.4	1403.6	1402.8	1402.1	1402.8	1403.6	1404.4
152.5°	1429.9	1429.5	1429.2	1428.9	1428.5	1428.2	1427.7	1427.4	1427.7	1428.2	1428.5
155°	1461.4	1461.1	1460.9	1461.0	1461.5	1462.0	1462.6	1463.1	1462.6	1462.0	1461.5
157.5°	1489.9	1490.2	1490.4	1490.6	1490.6	1490.7	1490.7	1490.8	1490.7	1490.7	1490.6
160°	1505.8	1506.1	1506.3	1506.6	1506.9	1507.1	1507.4	1507.6	1507.4	1507.1	1506.9
162.5°	1519.9	1520.1	1520.5	1520.9	1521.6	1522.3	1523.0	1523.6	1523.0	1522.3	1521.6
165°	1538.6	1538.9	1539.2	1539.7	1540.5	1541.3	1542.1	1542.9	1542.1	1541.3	1540.5
167.5°	1553.2	1553.2	1553.2	1553.7	1554.8	1555.8	1556.8	1557.9	1556.8	1555.8	1554.8
170°	1561.7	1561.7	1561.7	1562.2	1563.2	1564.3	1565.3	1566.3	1565.3	1564.3	1563.2
172.5°	1566.8	1566.6	1566.4	1566.9	1568.2	1569.4	1570.7	1572.0	1570.7	1569.4	1568.2
175°	1574.0	1573.8	1573.5	1574.0	1575.3	1576.6	1577.9	1579.2	1577.9	1576.6	1575.3
177.5°	1576.9	1576.7	1576.5	1576.9	1578.0	1579.0	1580.0	1581.1	1580.0	1579.0	1578.0
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P331946-840

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	785.0	782.8	779.7	775.1	771.3	765.5	765.5	766.4	766.4	766.1	765.5
5°	761.1	755.4	748.4	740.3	731.7	723.3	721.8	718.6	716.3	714.8	712.9
7.5°	736.0	725.8	715.6	704.3	693.9	685.3	679.3	674.4	671.2	667.8	665.3
10°	719.0	706.2	694.3	682.3	669.1	658.6	652.1	647.4	644.0	640.9	639.3
12.5°	698.9	684.3	671.1	659.6	645.3	634.5	628.2	626.1	622.0	615.5	612.1
15°	669.5	656.0	640.2	622.7	615.7	602.6	595.2	591.8	589.5	584.4	582.9
17.5°	644.4	626.6	608.8	595.8	582.9	572.3	568.2	563.8	560.8	556.6	555.4
20°	624.3	608.4	592.2	578.2	564.7	553.1	549.6	546.5	543.4	541.5	540.0
22.5°	603.8	587.9	574.5	561.5	547.0	539.5	535.6	532.3	530.1	528.8	527.3
25°	575.1	561.2	546.1	534.5	522.9	517.9	515.5	513.6	512.1	510.2	509.8
27.5°	549.5	534.3	522.1	511.2	502.9	498.7	496.4	495.5	495.8	496.6	497.0
30°	530.3	516.3	506.2	497.0	489.3	485.4	485.0	485.0	486.6	487.0	487.8
32.5°	512.6	501.2	491.1	482.1	476.3	473.6	475.1	475.1	476.4	477.4	478.8
35°	487.0	476.9	469.2	461.4	456.4	457.6	458.3	459.1	461.0	463.3	464.9
37.5°	462.4	453.7	445.7	439.6	437.3	439.4	441.2	442.8	445.1	446.9	448.4
40°	444.7	438.2	430.5	425.1	425.9	427.0	428.6	430.5	432.4	433.5	435.2
42.5°	428.4	421.5	415.7	411.1	412.2	413.7	414.7	415.7	417.9	420.0	420.9
45°	403.4	398.0	392.5	389.9	390.6	391.4	392.2	393.3	395.3	396.9	397.2
47.5°	375.4	371.5	367.9	365.3	366.5	366.2	367.2	369.7	370.3	371.2	373.3
50°	357.4	353.9	349.6	348.9	348.9	348.9	349.2	352.3	352.3	353.9	355.5
52.5°	337.6	335.4	332.6	331.2	330.6	330.6	332.2	333.8	334.4	336.6	338.1
55°	308.2	305.9	303.7	302.5	301.6	302.5	305.6	306.3	308.2	309.4	310.5
57.5°	277.7	275.9	274.1	273.5	273.3	274.3	276.0	278.3	278.8	282.4	284.1
60°	257.6	254.9	253.4	253.4	252.6	256.0	255.3	259.1	259.9	262.3	265.0
62.5°	236.8	233.2	232.6	232.6	233.7	234.7	235.8	237.5	239.5	242.5	244.5
65°	203.5	201.5	204.2	203.8	203.1	205.4	205.4	207.3	209.6	212.4	216.6
67.5°	171.8	170.8	171.1	171.1	172.2	173.5	174.6	176.3	179.0	182.0	184.7
70°	150.5	151.6	149.7	151.3	152.4	152.8	153.5	155.8	159.0	160.9	164.0
72.5°	129.8	129.7	129.9	130.5	131.7	132.4	133.1	135.7	139.2	140.8	143.3
75°	99.8	99.4	100.6	100.6	102.5	103.3	104.0	105.2	108.3	110.6	112.6
77.5°	72.9	73.3	73.1	74.4	73.9	74.0	76.4	77.6	77.9	82.5	83.5
80°	54.9	55.7	56.0	56.5	56.9	56.0	58.8	60.0	60.0	62.6	64.6
82.5°	39.5	39.9	40.9	41.3	41.4	42.1	42.4	43.2	44.1	45.3	47.9
85°	19.7	20.9	21.3	20.9	21.3	20.5	21.6	22.0	22.4	22.4	22.4
87.5°	8.5	9.4	9.8	10.8	11.1	12.1	12.3	11.9	12.1	13.2	12.2
90°	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.2	31.3	32.3	33.1
92.5°	18.9	19.8	22.4	24.9	27.5	30.0	31.7	33.3	35.0	36.8	37.7
95°	28.8	24.9	27.8	30.6	33.5	36.4	38.2	40.0	41.8	43.6	44.5
97.5°	124.6	112.9	94.1	75.3	56.6	37.8	39.9	41.9	44.0	46.2	47.3
100°	219.1	201.4	160.8	120.1	79.4	38.7	40.8	42.9	44.9	47.1	48.3
102.5°	275.3	254.9	210.5	166.0	121.6	77.2	70.7	64.2	57.8	51.3	48.4
105°	361.1	350.8	327.3	303.9	280.4	256.9	210.8	164.6	118.5	72.3	49.6
107.5°	453.1	456.2	459.9	463.5	467.3	471.0	437.1	403.2	369.4	335.6	301.2
110°	515.2	517.7	520.6	523.4	526.2	529.2	520.6	511.9	503.3	494.7	471.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	574.4	576.8	579.7	582.6	585.4	588.2	588.4	588.5	588.8	589.0	585.0
115°	662.1	664.1	666.4	668.7	671.2	673.5	676.1	678.6	681.3	683.9	685.7
117.5°	749.7	751.2	752.5	753.7	754.9	756.1	758.1	760.2	762.3	764.4	765.6
120°	804.9	806.5	807.2	808.0	808.8	809.5	811.6	813.7	815.8	817.9	818.9
122.5°	857.7	859.1	860.1	861.1	862.0	863.0	864.5	866.0	867.5	868.9	869.7
125°	932.9	934.4	935.4	936.5	937.6	938.6	939.2	939.7	940.2	940.7	941.2
127.5°	1005.1	1006.8	1008.0	1009.4	1010.6	1011.8	1012.7	1013.5	1014.3	1015.1	1015.3
130°	1050.2	1051.8	1052.8	1053.9	1054.9	1055.9	1057.0	1058.0	1059.0	1060.2	1060.4
132.5°	1093.4	1094.8	1095.7	1096.5	1097.3	1098.2	1099.2	1100.2	1101.4	1102.4	1102.5
135°	1157.2	1158.5	1159.6	1160.6	1161.6	1162.8	1163.5	1164.3	1165.1	1165.9	1165.9
137.5°	1215.3	1216.5	1217.1	1217.7	1218.2	1218.8	1220.0	1221.3	1222.5	1223.8	1224.2
140°	1251.1	1252.2	1253.0	1253.8	1254.7	1255.4	1256.5	1257.5	1258.5	1259.6	1259.8
142.5°	1285.9	1287.0	1287.8	1288.6	1289.4	1290.1	1291.0	1291.8	1292.6	1293.4	1293.5
145°	1335.4	1336.7	1337.2	1337.7	1338.2	1338.7	1339.2	1339.8	1340.3	1340.8	1341.0
147.5°	1378.7	1379.6	1380.1	1380.6	1381.1	1381.6	1382.2	1382.7	1383.2	1383.7	1383.4
150°	1405.2	1405.8	1406.3	1406.8	1407.4	1408.0	1408.5	1409.0	1409.5	1410.0	1409.9
152.5°	1428.9	1429.2	1429.5	1429.9	1430.2	1430.5	1431.4	1432.3	1433.3	1434.2	1434.1
155°	1461.0	1460.9	1461.1	1461.4	1461.7	1461.9	1463.2	1464.5	1465.8	1467.1	1466.9
157.5°	1490.6	1490.4	1490.2	1489.9	1489.7	1489.3	1491.0	1492.5	1494.0	1495.6	1495.4
160°	1506.6	1506.3	1506.1	1505.8	1505.6	1505.3	1506.9	1508.4	1510.0	1511.6	1511.5
162.5°	1520.9	1520.5	1520.1	1519.9	1519.6	1519.3	1521.2	1523.0	1524.7	1526.5	1526.5
165°	1539.7	1539.2	1538.9	1538.6	1538.4	1538.1	1540.2	1542.4	1544.4	1546.5	1546.6
167.5°	1553.7	1553.2	1553.2	1553.2	1553.2	1553.2	1555.3	1557.3	1559.4	1561.6	1561.6
170°	1562.2	1561.7	1561.7	1561.7	1561.7	1561.7	1563.7	1565.8	1567.9	1569.9	1569.9
172.5°	1566.9	1566.4	1566.6	1566.8	1567.0	1567.2	1569.3	1571.5	1573.5	1575.6	1575.5
175°	1574.0	1573.5	1573.8	1574.0	1574.3	1574.5	1576.4	1578.2	1580.0	1581.9	1581.7
177.5°	1576.9	1576.5	1576.7	1576.9	1577.1	1577.3	1579.0	1580.6	1582.4	1584.0	1583.8
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P331946-840

CATALOG NUMBER: S123DIP-S560D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	763.4	763.1	765.2	763.7	765.2	763.1	763.4	765.5	766.1	766.4	766.4
5°	710.5	711.7	707.8	707.8	707.8	711.7	710.5	712.9	714.8	716.3	718.6
7.5°	663.5	661.8	662.0	659.8	662.0	661.8	663.5	665.3	667.8	671.2	674.4
10°	634.7	632.4	631.6	632.0	631.6	632.4	634.7	639.3	640.9	644.0	647.4
12.5°	610.9	610.4	605.3	605.4	605.3	610.4	610.9	612.1	615.5	622.0	626.1
15°	582.9	575.5	574.7	577.0	574.7	575.5	582.9	582.9	584.4	589.5	591.8
17.5°	554.8	550.9	551.2	550.0	551.2	550.9	554.8	555.4	556.6	560.8	563.8
20°	540.0	537.7	537.2	534.5	537.2	537.7	540.0	540.0	541.5	543.4	546.5
22.5°	526.3	525.5	525.7	522.8	525.7	525.5	526.3	527.3	528.8	530.1	532.3
25°	509.4	511.3	509.8	509.8	509.8	511.3	509.4	509.8	510.2	512.1	513.6
27.5°	498.0	497.9	497.1	497.1	497.1	497.9	498.0	497.0	496.6	495.8	495.5
30°	489.3	488.9	489.7	489.7	489.7	488.9	489.3	487.8	487.0	486.6	485.0
32.5°	480.6	481.1	481.3	481.6	481.3	481.1	480.6	478.8	477.4	476.4	475.1
35°	467.3	467.6	468.8	468.0	468.8	467.6	467.3	464.9	463.3	461.0	459.1
37.5°	449.1	450.9	450.5	451.1	450.5	450.9	449.1	448.4	446.9	445.1	442.8
40°	435.6	436.7	436.3	436.3	436.3	436.7	435.6	435.2	433.5	432.4	430.5
42.5°	421.6	422.4	421.4	420.8	421.4	422.4	421.6	420.9	420.0	417.9	415.7
45°	398.8	398.0	399.2	397.6	399.2	398.0	398.8	397.2	396.9	395.3	393.3
47.5°	373.2	374.1	374.4	375.5	374.4	374.1	373.2	373.3	371.2	370.3	369.7
50°	356.2	358.5	358.5	358.2	358.5	358.5	356.2	355.5	353.9	352.3	352.3
52.5°	339.5	340.6	342.1	342.0	342.1	340.6	339.5	338.1	336.6	334.4	333.8
55°	313.7	314.5	315.2	315.6	315.2	314.5	313.7	310.5	309.4	308.2	306.3
57.5°	286.9	286.6	288.4	289.0	288.4	286.6	286.9	284.1	282.4	278.8	278.3
60°	268.0	268.0	271.1	272.3	271.1	268.0	268.0	265.0	262.3	259.9	259.1
62.5°	247.9	249.1	252.3	250.6	252.3	249.1	247.9	244.5	242.5	239.5	237.5
65°	218.5	221.7	221.3	222.8	221.3	221.7	218.5	216.6	212.4	209.6	207.3
67.5°	187.8	189.8	192.6	192.8	192.6	189.8	187.8	184.7	182.0	179.0	176.3
70°	167.1	169.1	170.6	171.7	170.6	169.1	167.1	164.0	160.9	159.0	155.8
72.5°	146.9	147.9	151.7	150.1	151.7	147.9	146.9	143.3	140.8	139.2	135.7
75°	115.2	118.0	120.3	119.2	120.3	118.0	115.2	112.6	110.6	108.3	105.2
77.5°	85.2	88.0	89.1	88.1	89.1	88.0	85.2	83.5	82.5	77.9	77.6
80°	67.3	67.0	69.3	68.9	69.3	67.0	67.3	64.6	62.6	60.0	60.0
82.5°	49.4	49.0	50.1	50.3	50.1	49.0	49.4	47.9	45.3	44.1	43.2
85°	23.9	25.1	23.6	23.2	23.6	25.1	23.9	22.4	22.4	22.4	22.0
87.5°	12.3	12.4	12.2	12.0	12.2	12.4	12.3	12.2	13.2	12.1	11.9
90°	33.6	34.1	34.6	35.2	34.6	34.1	33.6	33.1	32.3	31.3	30.2
92.5°	38.0	38.4	38.7	39.0	38.7	38.4	38.0	37.7	36.8	35.0	33.3
95°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	43.6	41.8	40.0
97.5°	47.6	47.9	48.1	48.4	48.1	47.9	47.6	47.3	46.2	44.0	41.9
100°	48.5	48.8	49.0	49.3	49.0	48.8	48.5	48.3	47.1	44.9	42.9
102.5°	48.8	49.3	49.8	50.2	49.8	49.3	48.8	48.4	51.3	57.8	64.2
105°	50.1	50.6	51.1	51.6	51.1	50.6	50.1	49.6	72.3	118.5	164.6
107.5°	266.5	231.7	196.9	162.2	196.9	231.7	266.5	301.2	335.6	369.4	403.2
110°	434.5	397.2	359.9	322.7	359.9	397.2	434.5	471.8	494.7	503.3	511.9



TEST NUMBER: P331946-840

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	577.1	569.3	561.4	553.5	561.4	569.3	577.1	585.0	589.0	588.8	588.5
115°	686.7	687.8	688.8	689.8	688.8	687.8	686.7	685.7	683.9	681.3	678.6
117.5°	765.8	766.0	766.2	766.4	766.2	766.0	765.8	765.6	764.4	762.3	760.2
120°	818.9	818.9	818.9	818.9	818.9	818.9	818.9	818.9	817.9	815.8	813.7
122.5°	869.9	870.1	870.4	870.6	870.4	870.1	869.9	869.7	868.9	867.5	866.0
125°	941.7	942.3	942.8	943.3	942.8	942.3	941.7	941.2	940.7	940.2	939.7
127.5°	1014.8	1014.3	1013.8	1013.2	1013.8	1014.3	1014.8	1015.3	1015.1	1014.3	1013.5
130°	1059.9	1059.3	1058.8	1058.3	1058.8	1059.3	1059.9	1060.4	1060.2	1059.0	1058.0
132.5°	1101.8	1101.1	1100.3	1099.5	1100.3	1101.1	1101.8	1102.5	1102.4	1101.4	1100.2
135°	1165.1	1164.3	1163.5	1162.8	1163.5	1164.3	1165.1	1165.9	1165.9	1165.1	1164.3
137.5°	1223.7	1223.1	1222.6	1222.0	1222.6	1223.1	1223.7	1224.2	1223.8	1222.5	1221.3
140°	1259.3	1258.8	1258.3	1257.8	1258.3	1258.8	1259.3	1259.8	1259.6	1258.5	1257.5
142.5°	1292.8	1292.0	1291.3	1290.6	1291.3	1292.0	1292.8	1293.5	1293.4	1292.6	1291.8
145°	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1341.0	1340.8	1340.3	1339.8
147.5°	1382.2	1381.0	1379.8	1378.6	1379.8	1381.0	1382.2	1383.4	1383.7	1383.2	1382.7
150°	1409.1	1408.4	1407.5	1406.7	1407.5	1408.4	1409.1	1409.9	1410.0	1409.5	1409.0
152.5°	1432.9	1431.7	1430.5	1429.3	1430.5	1431.7	1432.9	1434.1	1434.2	1433.3	1432.3
155°	1465.4	1463.9	1462.3	1460.8	1462.3	1463.9	1465.4	1466.9	1467.1	1465.8	1464.5
157.5°	1493.4	1491.3	1489.2	1487.2	1489.2	1491.3	1493.4	1495.4	1495.6	1494.0	1492.5
160°	1509.6	1507.8	1505.9	1504.1	1505.9	1507.8	1509.6	1511.5	1511.6	1510.0	1508.4
162.5°	1524.9	1523.3	1521.7	1520.0	1521.7	1523.3	1524.9	1526.5	1526.5	1524.7	1523.0
165°	1544.8	1543.0	1541.2	1539.3	1541.2	1543.0	1544.8	1546.6	1546.5	1544.4	1542.4
167.5°	1559.4	1557.3	1555.3	1553.2	1555.3	1557.3	1559.4	1561.6	1561.6	1559.4	1557.3
170°	1567.9	1565.8	1563.7	1561.7	1563.7	1565.8	1567.9	1569.9	1569.9	1567.9	1565.8
172.5°	1573.2	1570.9	1568.6	1566.3	1568.6	1570.9	1573.2	1575.5	1575.6	1573.5	1571.5
175°	1579.6	1577.5	1575.5	1573.4	1575.5	1577.5	1579.6	1581.7	1581.9	1580.0	1578.2
177.5°	1581.8	1579.6	1577.5	1575.5	1577.5	1579.6	1581.8	1583.8	1584.0	1582.4	1580.6
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	765.5	765.5	771.3	775.1	779.7	782.8	785.0	787.2	790.8	795.9	801.4
5°	721.8	723.3	731.7	740.3	748.4	755.4	761.1	768.1	776.7	787.1	798.7
7.5°	679.3	685.3	693.9	704.3	715.6	725.8	736.0	747.5	759.4	774.9	791.1
10°	652.1	658.6	669.1	682.3	694.3	706.2	719.0	731.3	746.5	764.7	785.6
12.5°	628.2	634.5	645.3	659.6	671.1	684.3	698.9	715.0	732.0	753.9	777.5
15°	595.2	602.6	615.7	622.7	640.2	656.0	669.5	692.7	714.4	736.8	764.3
17.5°	568.2	572.3	582.9	595.8	608.8	626.6	644.4	663.7	685.3	712.8	747.1
20°	549.6	553.1	564.7	578.2	592.2	608.4	624.3	643.6	667.9	697.0	734.1
22.5°	535.6	539.5	547.0	561.5	574.5	587.9	603.8	626.9	652.8	681.2	721.4
25°	515.5	517.9	522.9	534.5	546.1	561.2	575.1	596.8	623.5	656.7	697.0
27.5°	496.4	498.7	502.9	511.2	522.1	534.3	549.5	567.8	594.9	631.1	673.8
30°	485.0	485.4	489.3	497.0	506.2	516.3	530.3	551.2	576.6	613.4	658.3
32.5°	475.1	473.6	476.3	482.1	491.1	501.2	512.6	533.2	557.8	593.9	640.1
35°	458.3	457.6	456.4	461.4	469.2	476.9	487.0	502.4	530.3	563.9	612.3
37.5°	441.2	439.4	437.3	439.6	445.7	453.7	462.4	476.2	500.2	537.2	583.5
40°	428.6	427.0	425.9	425.1	430.5	438.2	444.7	458.0	480.4	515.5	561.2
42.5°	414.7	413.7	412.2	411.1	415.7	421.5	428.4	440.0	462.4	495.4	538.7
45°	392.2	391.4	390.6	389.9	392.5	398.0	403.4	411.9	431.2	463.3	502.4
47.5°	367.2	366.2	366.5	365.3	367.9	371.5	375.4	384.5	403.0	428.9	457.5
50°	349.2	348.9	348.9	348.9	349.6	353.9	357.4	364.4	381.3	407.3	427.8
52.5°	332.2	330.6	330.6	331.2	332.6	335.4	337.6	345.2	360.0	381.3	399.9
55°	305.6	302.5	301.6	302.5	303.7	305.9	308.2	314.5	327.2	343.1	353.9
57.5°	276.0	274.3	273.3	273.5	274.1	275.9	277.7	284.5	294.5	302.8	309.7
60°	255.3	256.0	252.6	253.4	253.4	254.9	257.6	261.9	270.3	276.2	283.2
62.5°	235.8	234.7	233.7	232.6	232.6	233.2	236.8	240.1	247.4	250.4	255.9
65°	205.4	205.4	203.1	203.8	204.2	201.5	203.5	207.3	212.0	213.1	218.1
67.5°	174.6	173.5	172.2	171.1	171.1	170.8	171.8	173.7	177.2	177.6	181.5
70°	153.5	152.8	152.4	151.3	149.7	151.6	150.5	152.4	154.3	154.7	157.0
72.5°	133.1	132.4	131.7	130.5	129.9	129.7	129.8	132.0	133.3	132.7	135.3
75°	104.0	103.3	102.5	100.6	100.6	99.4	99.8	101.3	102.9	101.7	104.0
77.5°	76.4	74.0	73.9	74.4	73.1	73.3	72.9	72.6	73.3	73.4	75.5
80°	58.8	56.0	56.9	56.5	56.0	55.7	54.9	55.3	55.7	56.0	57.3
82.5°	42.4	42.1	41.4	41.3	40.9	39.9	39.5	40.2	40.5	40.3	41.2
85°	21.6	20.5	21.3	20.9	21.3	20.9	19.7	19.7	20.5	20.1	20.9
87.5°	12.3	12.1	11.1	10.8	9.8	9.4	8.5	8.3	8.1	7.6	7.7
90°	29.2	28.2	24.7	21.4	18.0	14.6	11.6	9.0	6.4	3.7	1.2
92.5°	31.7	30.0	27.5	24.9	22.4	19.8	18.9	19.6	20.4	21.1	21.8
95°	38.2	36.4	33.5	30.6	27.8	24.9	28.8	39.5	50.2	60.9	71.6
97.5°	39.9	37.8	56.6	75.3	94.1	112.9	124.6	129.5	134.2	139.1	143.8
100°	40.8	38.7	79.4	120.1	160.8	201.4	219.1	213.9	208.7	203.5	198.2
102.5°	70.7	77.2	121.6	166.0	210.5	254.9	275.3	271.5	267.7	264.0	260.2
105°	210.8	256.9	280.4	303.9	327.3	350.8	361.1	358.2	355.4	352.5	349.6
107.5°	437.1	471.0	467.3	463.5	459.9	456.2	453.1	450.8	448.6	446.3	443.9
110°	520.6	529.2	526.2	523.4	520.6	517.7	515.2	513.1	511.0	509.0	506.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	588.4	588.2	585.4	582.6	579.7	576.8	574.4	572.6	570.7	568.8	566.9
115°	676.1	673.5	671.2	668.7	666.4	664.1	662.1	660.6	658.9	657.4	655.9
117.5°	758.1	756.1	754.9	753.7	752.5	751.2	749.7	747.8	745.8	743.9	741.9
120°	811.6	809.5	808.8	808.0	807.2	806.5	804.9	802.5	800.2	797.8	795.5
122.5°	864.5	863.0	862.0	861.1	860.1	859.1	857.7	855.7	853.7	851.8	849.9
125°	939.2	938.6	937.6	936.5	935.4	934.4	932.9	930.8	928.7	926.7	924.5
127.5°	1012.7	1011.8	1010.6	1009.4	1008.0	1006.8	1005.1	1003.1	1001.0	998.9	996.8
130°	1057.0	1055.9	1054.9	1053.9	1052.8	1051.8	1050.2	1048.1	1046.0	1044.0	1041.9
132.5°	1099.2	1098.2	1097.3	1096.5	1095.7	1094.8	1093.4	1091.3	1089.2	1087.1	1085.0
135°	1163.5	1162.8	1161.6	1160.6	1159.6	1158.5	1157.2	1155.7	1154.1	1152.6	1150.9
137.5°	1220.0	1218.8	1218.2	1217.7	1217.1	1216.5	1215.3	1213.3	1211.2	1209.3	1207.3
140°	1256.5	1255.4	1254.7	1253.8	1253.0	1252.2	1251.1	1249.5	1248.0	1246.4	1244.9
142.5°	1291.0	1290.1	1289.4	1288.6	1287.8	1287.0	1285.9	1284.2	1282.7	1281.1	1279.6
145°	1339.2	1338.7	1338.2	1337.7	1337.2	1336.7	1335.4	1333.6	1331.8	1330.0	1328.2
147.5°	1382.2	1381.6	1381.1	1380.6	1380.1	1379.6	1378.7	1377.5	1376.3	1375.1	1373.9
150°	1408.5	1408.0	1407.4	1406.8	1406.3	1405.8	1405.2	1404.4	1403.6	1402.8	1402.1
152.5°	1431.4	1430.5	1430.2	1429.9	1429.5	1429.2	1428.9	1428.5	1428.2	1427.7	1427.4
155°	1463.2	1461.9	1461.7	1461.4	1461.1	1460.9	1461.0	1461.5	1462.0	1462.6	1463.1
157.5°	1491.0	1489.3	1489.7	1489.9	1490.2	1490.4	1490.6	1490.6	1490.7	1490.7	1490.8
160°	1506.9	1505.3	1505.6	1505.8	1506.1	1506.3	1506.6	1506.9	1507.1	1507.4	1507.6
162.5°	1521.2	1519.3	1519.6	1519.9	1520.1	1520.5	1520.9	1521.6	1522.3	1523.0	1523.6
165°	1540.2	1538.1	1538.4	1538.6	1538.9	1539.2	1539.7	1540.5	1541.3	1542.1	1542.9
167.5°	1555.3	1553.2	1553.2	1553.2	1553.2	1553.2	1553.7	1554.8	1555.8	1556.8	1557.9
170°	1563.7	1561.7	1561.7	1561.7	1561.7	1561.7	1562.2	1563.2	1564.3	1565.3	1566.3
172.5°	1569.3	1567.2	1567.0	1566.8	1566.6	1566.4	1566.9	1568.2	1569.4	1570.7	1572.0
175°	1576.4	1574.5	1574.3	1574.0	1573.8	1573.5	1574.0	1575.3	1576.6	1577.9	1579.2
177.5°	1579.0	1577.3	1577.1	1576.9	1576.7	1576.5	1576.9	1578.0	1579.0	1580.0	1581.1
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



TEST NUMBER: P331946-840

CATALOG NUMBER: S123DIP-S560D1195U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	803.2	804.8	810.0	813.7	818.1	820.6	823.0	825.0	827.4	828.0	837.0
5°	806.8	814.6	828.1	838.1	850.5	864.0	873.3	877.6	888.8	898.1	916.7
7.5°	805.8	822.2	842.7	863.9	886.7	907.7	925.9	947.6	963.0	986.1	1009.0
10°	804.9	826.9	853.2	880.3	912.0	941.4	967.8	997.1	1021.5	1053.6	1081.1
12.5°	802.1	828.8	865.3	897.3	935.8	976.3	1015.3	1053.1	1074.7	1128.1	1153.5
15°	795.2	826.9	872.5	921.3	974.3	1022.3	1071.8	1111.2	1175.0	1221.8	1251.6
17.5°	782.0	826.5	880.6	939.4	1003.8	1067.0	1123.1	1183.0	1250.7	1307.3	1367.7
20°	775.9	824.6	884.9	949.9	1016.8	1088.3	1152.2	1224.2	1298.0	1353.7	1431.1
22.5°	764.5	819.6	884.6	957.0	1028.5	1102.6	1177.3	1249.8	1335.1	1411.9	1485.5
25°	745.7	807.6	874.8	955.7	1039.7	1113.9	1203.3	1299.6	1388.6	1487.1	1560.6
27.5°	726.1	792.1	859.6	934.7	1025.0	1113.2	1225.6	1334.3	1443.1	1528.3	1582.7
30°	710.8	775.1	844.8	920.5	1009.9	1114.7	1240.4	1359.1	1465.1	1538.2	1568.7
32.5°	694.5	759.6	821.2	900.7	995.9	1113.8	1249.7	1373.6	1466.3	1515.0	1509.0
35°	668.7	723.3	783.3	859.8	972.0	1106.9	1255.1	1374.9	1431.8	1421.4	1342.5
37.5°	631.6	677.5	736.5	820.3	944.1	1092.7	1244.3	1334.2	1330.5	1245.5	1131.1
40°	608.4	647.4	704.3	792.5	922.4	1083.4	1227.2	1285.7	1236.2	1117.4	980.5
42.5°	578.0	614.0	670.9	761.5	898.7	1064.5	1194.8	1211.6	1114.8	978.2	852.7
45°	531.1	562.8	621.6	715.2	862.9	1023.4	1115.5	1074.1	943.7	802.5	707.0
47.5°	480.5	513.5	570.1	666.2	811.2	961.6	1005.4	917.5	783.6	669.1	581.4
50°	448.7	480.4	535.6	632.8	776.3	910.9	929.1	815.4	692.4	591.8	519.8
52.5°	416.5	446.4	500.7	598.1	735.4	852.0	840.8	725.0	611.9	526.1	469.7
55°	368.6	396.9	448.7	540.0	664.9	757.3	716.7	606.1	512.5	446.0	403.0
57.5°	325.8	352.8	397.5	480.0	588.5	652.1	600.5	507.3	432.8	381.6	349.6
60°	296.7	320.6	363.1	439.8	534.1	582.5	531.4	449.1	386.4	345.4	316.8
62.5°	269.1	290.0	329.4	398.9	480.9	521.5	469.9	400.1	346.8	310.4	286.1
65°	227.4	246.4	281.1	335.4	402.6	429.7	385.3	328.7	287.4	260.3	244.1
67.5°	189.3	205.4	235.5	278.1	327.7	347.4	313.6	269.8	238.6	216.9	204.0
70°	164.0	177.9	201.5	238.2	283.2	298.2	266.5	230.6	207.7	190.3	178.3
72.5°	142.6	152.9	174.3	202.7	240.1	252.1	229.9	198.3	177.0	164.0	154.5
75°	108.7	117.1	131.1	153.9	179.9	186.8	170.2	150.5	136.1	126.8	119.5
77.5°	78.4	84.6	94.7	108.8	126.7	133.0	122.5	109.3	98.9	92.6	88.5
80°	59.2	64.2	72.7	84.3	95.1	98.7	92.4	82.4	75.0	71.6	68.1
82.5°	43.7	46.6	51.7	59.6	67.0	71.1	65.8	59.8	55.8	52.7	51.4
85°	22.0	23.6	26.0	29.0	33.6	35.2	33.2	31.7	29.4	27.5	27.5
87.5°	8.8	9.3	10.8	11.9	13.7	15.3	15.8	15.8	16.2	16.1	16.0
90°	3.7	6.4	9.0	11.6	14.6	18.0	21.4	24.7	28.2	29.2	30.2
92.5°	21.1	20.4	19.6	18.9	19.8	22.4	24.9	27.5	30.0	31.7	33.3
95°	60.9	50.2	39.5	28.8	24.9	27.8	30.6	33.5	36.4	38.2	40.0
97.5°	139.1	134.2	129.5	124.6	112.9	94.1	75.3	56.6	37.8	39.9	41.9
100°	203.5	208.7	213.9	219.1	201.4	160.8	120.1	79.4	38.7	40.8	42.9
102.5°	264.0	267.7	271.5	275.3	254.9	210.5	166.0	121.6	77.2	70.7	64.2
105°	352.5	355.4	358.2	361.1	350.8	327.3	303.9	280.4	256.9	210.8	164.6
107.5°	446.3	448.6	450.8	453.1	456.2	459.9	463.5	467.3	471.0	437.1	403.2
110°	509.0	511.0	513.1	515.2	517.7	520.6	523.4	526.2	529.2	520.6	511.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	568.8	570.7	572.6	574.4	576.8	579.7	582.6	585.4	588.2	588.4	588.5
115°	657.4	658.9	660.6	662.1	664.1	666.4	668.7	671.2	673.5	676.1	678.6
117.5°	743.9	745.8	747.8	749.7	751.2	752.5	753.7	754.9	756.1	758.1	760.2
120°	797.8	800.2	802.5	804.9	806.5	807.2	808.0	808.8	809.5	811.6	813.7
122.5°	851.8	853.7	855.7	857.7	859.1	860.1	861.1	862.0	863.0	864.5	866.0
125°	926.7	928.7	930.8	932.9	934.4	935.4	936.5	937.6	938.6	939.2	939.7
127.5°	998.9	1001.0	1003.1	1005.1	1006.8	1008.0	1009.4	1010.6	1011.8	1012.7	1013.5
130°	1044.0	1046.0	1048.1	1050.2	1051.8	1052.8	1053.9	1054.9	1055.9	1057.0	1058.0
132.5°	1087.1	1089.2	1091.3	1093.4	1094.8	1095.7	1096.5	1097.3	1098.2	1099.2	1100.2
135°	1152.6	1154.1	1155.7	1157.2	1158.5	1159.6	1160.6	1161.6	1162.8	1163.5	1164.3
137.5°	1209.3	1211.2	1213.3	1215.3	1216.5	1217.1	1217.7	1218.2	1218.8	1220.0	1221.3
140°	1246.4	1248.0	1249.5	1251.1	1252.2	1253.0	1253.8	1254.7	1255.4	1256.5	1257.5
142.5°	1281.1	1282.7	1284.2	1285.9	1287.0	1287.8	1288.6	1289.4	1290.1	1291.0	1291.8
145°	1330.0	1331.8	1333.6	1335.4	1336.7	1337.2	1337.7	1338.2	1338.7	1339.2	1339.8
147.5°	1375.1	1376.3	1377.5	1378.7	1379.6	1380.1	1380.6	1381.1	1381.6	1382.2	1382.7
150°	1402.8	1403.6	1404.4	1405.2	1405.8	1406.3	1406.8	1407.4	1408.0	1408.5	1409.0
152.5°	1427.7	1428.2	1428.5	1428.9	1429.2	1429.5	1429.9	1430.2	1430.5	1431.4	1432.3
155°	1462.6	1462.0	1461.5	1461.0	1460.9	1461.1	1461.4	1461.7	1461.9	1463.2	1464.5
157.5°	1490.7	1490.7	1490.6	1490.6	1490.4	1490.2	1489.9	1489.7	1489.3	1491.0	1492.5
160°	1507.4	1507.1	1506.9	1506.6	1506.3	1506.1	1505.8	1505.6	1505.3	1506.9	1508.4
162.5°	1523.0	1522.3	1521.6	1520.9	1520.5	1520.1	1519.9	1519.6	1519.3	1521.2	1523.0
165°	1542.1	1541.3	1540.5	1539.7	1539.2	1538.9	1538.6	1538.4	1538.1	1540.2	1542.4
167.5°	1556.8	1555.8	1554.8	1553.7	1553.2	1553.2	1553.2	1553.2	1553.2	1555.3	1557.3
170°	1565.3	1564.3	1563.2	1562.2	1561.7	1561.7	1561.7	1561.7	1561.7	1563.7	1565.8
172.5°	1570.7	1569.4	1568.2	1566.9	1566.4	1566.6	1566.8	1567.0	1567.2	1569.3	1571.5
175°	1577.9	1576.6	1575.3	1574.0	1573.5	1573.8	1574.0	1574.3	1574.5	1576.4	1578.2
177.5°	1580.0	1579.0	1578.0	1576.9	1576.5	1576.7	1576.9	1577.1	1577.3	1579.0	1580.6
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	798.3	798.3	798.3	798.3	798.3	798.3	798.3
2.5°	840.1	840.4	843.7	846.3	845.1	846.6	847.2
5°	917.8	931.7	939.1	944.5	944.9	945.2	948.4
7.5°	1028.0	1043.0	1053.9	1070.5	1075.4	1081.1	1079.4
10°	1108.5	1130.5	1149.5	1159.5	1170.3	1186.2	1173.5
12.5°	1183.7	1222.7	1251.6	1267.2	1277.5	1280.6	1274.3
15°	1307.7	1358.8	1386.2	1385.4	1420.3	1435.3	1411.7
17.5°	1421.4	1468.5	1506.2	1525.6	1554.6	1561.0	1558.1
20°	1491.0	1542.5	1571.9	1605.1	1620.2	1633.8	1636.1
22.5°	1551.1	1597.2	1628.8	1656.5	1669.1	1675.5	1679.4
25°	1612.9	1649.2	1668.2	1677.8	1681.3	1680.5	1675.5
27.5°	1608.6	1611.3	1590.5	1570.0	1551.7	1531.0	1523.9
30°	1566.8	1534.3	1476.3	1443.4	1395.1	1356.8	1372.3
32.5°	1456.9	1392.3	1327.2	1255.3	1195.8	1178.9	1161.8
35°	1243.4	1129.7	1063.3	985.9	954.9	924.0	902.7
37.5°	1006.0	918.1	839.1	788.5	757.5	738.0	727.4
40°	869.9	790.5	725.6	684.6	661.0	638.9	635.8
42.5°	761.2	687.5	638.6	606.0	583.3	574.0	567.1
45°	623.5	572.0	539.2	515.9	500.9	495.0	487.4
47.5°	527.8	491.4	466.7	450.9	439.5	435.2	434.5
50°	474.2	444.0	425.9	413.4	404.6	403.0	396.9
52.5°	433.9	407.8	393.6	382.8	376.4	372.0	370.2
55°	376.7	359.3	346.6	340.3	335.4	331.0	331.0
57.5°	329.6	315.1	306.6	301.3	299.8	296.8	294.9
60°	300.5	288.1	281.6	276.9	273.9	274.2	270.7
62.5°	272.1	264.0	257.7	253.1	249.4	249.4	249.7
65°	231.7	225.5	220.9	219.3	217.0	214.3	215.0
67.5°	196.3	190.6	186.9	184.3	183.5	182.0	184.3
70°	171.0	166.7	164.0	161.7	160.9	161.3	163.2
72.5°	147.7	144.7	143.0	141.9	140.2	140.3	141.6
75°	116.0	113.7	112.2	111.0	110.6	110.6	110.6
77.5°	85.2	84.7	84.0	82.3	82.4	82.8	82.9
80°	67.3	66.1	65.7	64.9	63.8	63.0	64.9
82.5°	50.3	49.1	48.8	48.6	46.8	46.7	48.3
85°	27.1	26.0	26.3	26.0	26.0	25.5	25.5
87.5°	15.9	15.8	15.6	16.1	15.8	15.6	16.4
90°	31.3	32.3	33.1	33.6	34.1	34.6	35.2
92.5°	35.0	36.8	37.7	38.0	38.4	38.7	39.0
95°	41.8	43.6	44.5	44.5	44.5	44.5	44.5
97.5°	44.0	46.2	47.3	47.6	47.9	48.1	48.4
100°	44.9	47.1	48.3	48.5	48.8	49.0	49.3
102.5°	57.8	51.3	48.4	48.8	49.3	49.8	50.2
105°	118.5	72.3	49.6	50.1	50.6	51.1	51.6
107.5°	369.4	335.6	301.2	266.5	231.7	196.9	162.2
110°	503.3	494.7	471.8	434.5	397.2	359.9	322.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	588.8	589.0	585.0	577.1	569.3	561.4	553.5
115°	681.3	683.9	685.7	686.7	687.8	688.8	689.8
117.5°	762.3	764.4	765.6	765.8	766.0	766.2	766.4
120°	815.8	817.9	818.9	818.9	818.9	818.9	818.9
122.5°	867.5	868.9	869.7	869.9	870.1	870.4	870.6
125°	940.2	940.7	941.2	941.7	942.3	942.8	943.3
127.5°	1014.3	1015.1	1015.3	1014.8	1014.3	1013.8	1013.2
130°	1059.0	1060.2	1060.4	1059.9	1059.3	1058.8	1058.3
132.5°	1101.4	1102.4	1102.5	1101.8	1101.1	1100.3	1099.5
135°	1165.1	1165.9	1165.9	1165.1	1164.3	1163.5	1162.8
137.5°	1222.5	1223.8	1224.2	1223.7	1223.1	1222.6	1222.0
140°	1258.5	1259.6	1259.8	1259.3	1258.8	1258.3	1257.8
142.5°	1292.6	1293.4	1293.5	1292.8	1292.0	1291.3	1290.6
145°	1340.3	1340.8	1341.0	1341.0	1341.0	1341.0	1341.0
147.5°	1383.2	1383.7	1383.4	1382.2	1381.0	1379.8	1378.6
150°	1409.5	1410.0	1409.9	1409.1	1408.4	1407.5	1406.7
152.5°	1433.3	1434.2	1434.1	1432.9	1431.7	1430.5	1429.3
155°	1465.8	1467.1	1466.9	1465.4	1463.9	1462.3	1460.8
157.5°	1494.0	1495.6	1495.4	1493.4	1491.3	1489.2	1487.2
160°	1510.0	1511.6	1511.5	1509.6	1507.8	1505.9	1504.1
162.5°	1524.7	1526.5	1526.5	1524.9	1523.3	1521.7	1520.0
165°	1544.4	1546.5	1546.6	1544.8	1543.0	1541.2	1539.3
167.5°	1559.4	1561.6	1561.6	1559.4	1557.3	1555.3	1553.2
170°	1567.9	1569.9	1569.9	1567.9	1565.8	1563.7	1561.7
172.5°	1573.5	1575.6	1575.5	1573.2	1570.9	1568.6	1566.3
175°	1580.0	1581.9	1581.7	1579.6	1577.5	1575.5	1573.4
177.5°	1582.4	1584.0	1583.8	1581.8	1579.6	1577.5	1575.5
180°	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2	1579.2

(END OF REPORT)