

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: P331730-930

Luminaire Tested: **SA2XXRDIP-C865D1080U930-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331730-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C865D1080U930-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5833.1 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

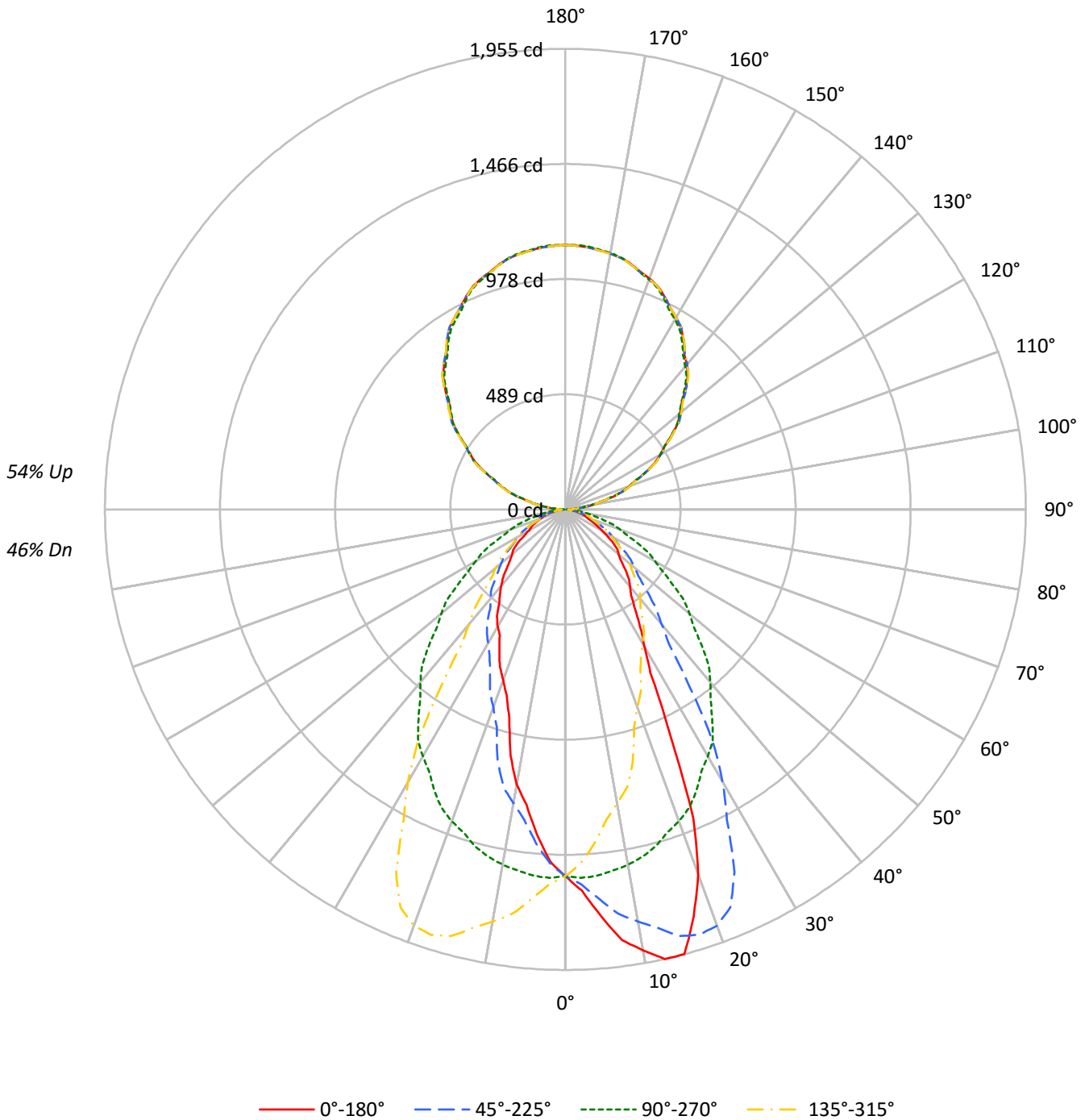
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46
1	98	94	90	87	90	86	83	80	72	70	68	59	58	57	48	47	46	40
2	89	83	77	72	82	76	71	67	64	61	58	53	51	48	43	41	40	35
3	82	73	66	61	75	68	62	57	57	53	49	48	45	42	39	37	35	31
4	76	65	58	52	69	61	54	49	51	47	43	43	39	37	35	33	31	27
5	70	59	51	45	64	54	48	43	46	41	37	39	35	32	32	29	27	24
6	64	53	45	40	59	49	42	38	42	37	33	36	32	29	29	27	24	22
7	60	48	41	35	55	45	38	33	39	33	30	33	29	26	27	24	22	20
8	56	44	37	31	51	41	34	30	35	30	27	30	26	23	25	22	20	18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	23	21	18	16
10	49	37	30	26	45	35	29	24	30	25	22	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25137	25137	25137	25137
5°	28075	25293	22428	25293
10°	31147	25117	19441	25117
15°	32679	24749	15318	24749
20°	28331	24204	13254	24204
25°	18579	23457	11834	23457
30°	12506	22551	10711	22551
35°	10129	21409	9660	21409
40°	9008	20168	8939	20168
45°	8152	18712	7978	18712
50°	7420	17269	7390	17269
55°	6975	15671	6883	15671
60°	5835	14202	5767	14202
65°	4917	12894	5578	12894
70°	4546	11514	5264	11514
75°	4255	10025	4860	10025
80°	3924	8247	4333	8247
85°	3612	6502	3798	6502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	2.5
10°-20°	411.2	7.1
20°-30°	529.9	9.1
30°-40°	503.6	8.6
40°-50°	431.4	7.4
50°-60°	328.5	5.6
60°-70°	207.7	3.6
70°-80°	103.7	1.8
80°-90°	31.5	0.5
90°-100°	71.1	1.2
100°-110°	220.9	3.8
110°-120°	377.5	6.5
120°-130°	496.5	8.5
130°-140°	557.2	9.6
140°-150°	546.4	9.4
150°-160°	458.3	7.9
160°-170°	304.0	5.2
170°-180°	106.2	1.8
0°-30°	1088.7	18.7
0°-40°	1592.3	27.3
0°-60°	2352.3	40.3
0°-90°	2695.1	46.2
90°-120°	669.5	11.5
90°-150°	2269.5	38.9
90°-180°	3138.0	53.8
0°-180°	5833.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1557	1557	1557	1557	1557	
5°	1732	1561	1384	1561	1732	171
15°	1955	1481	916	1481	1955	527
25°	1043	1317	664	1317	1043	495
35°	514	1086	490	1086	514	329
45°	357	820	349	820	357	276
55°	248	557	244	557	248	217
65°	129	338	146	338	129	131
75°	68	161	78	161	68	72
85°	20	35	20	35	20	22
90°	32	1	32	1	32	15
95°	59	49	59	49	59	65
105°	210	204	210	204	210	221
115°	379	379	379	379	379	374
125°	553	551	553	551	553	493
135°	722	713	722	713	722	555
145°	875	866	875	866	875	546
155°	997	990	997	990	997	459
165°	1078	1077	1078	1077	1078	304
175°	1117	1120	1117	1120	1117	106
180°	1122	1122	1122	1122	1122	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1620.1	1621.4	1622.7	1619.6	1619.6	1617.1	1611.4	1607.1	1595.0	1593.3	1593.3
5°	1732.2	1731.0	1733.2	1726.2	1716.4	1714.3	1704.1	1690.5	1676.4	1660.8	1657.5
7.5°	1843.6	1841.9	1837.6	1836.5	1829.0	1812.7	1796.1	1778.5	1755.1	1732.3	1720.8
10°	1899.8	1917.7	1906.9	1887.9	1891.7	1866.3	1852.8	1829.5	1810.0	1776.0	1768.4
12.5°	1955.3	1962.3	1958.8	1948.1	1943.3	1925.6	1907.3	1887.1	1851.1	1820.6	1793.9
15°	1955.0	1965.3	1968.0	1964.8	1967.5	1966.4	1956.6	1939.8	1908.5	1874.9	1845.8
17.5°	1810.7	1817.9	1835.6	1847.5	1862.7	1894.8	1910.6	1916.7	1912.0	1892.9	1872.3
20°	1648.9	1637.0	1686.7	1712.1	1733.7	1787.9	1834.4	1852.3	1880.9	1880.4	1874.9
22.5°	1419.4	1422.3	1469.5	1499.7	1562.8	1616.9	1670.0	1737.2	1792.6	1829.3	1850.7
25°	1042.9	1063.6	1110.6	1151.7	1222.1	1322.7	1414.1	1520.1	1620.2	1699.2	1774.3
27.5°	783.3	784.8	822.1	860.1	901.9	984.3	1099.4	1226.0	1368.7	1486.5	1621.9
30°	670.8	667.6	683.2	706.5	742.2	806.0	892.6	1017.0	1159.3	1336.7	1494.7
32.5°	591.2	591.3	603.2	620.4	650.0	693.1	752.4	853.5	987.9	1162.3	1347.5
35°	513.9	513.4	522.0	534.4	546.9	574.5	615.1	668.1	760.6	923.4	1112.7
37.5°	458.5	460.9	465.1	472.9	486.7	502.0	526.4	562.0	627.9	724.1	883.3
40°	427.4	428.4	434.4	440.9	449.0	460.9	480.9	509.6	557.7	634.5	750.8
42.5°	398.8	399.9	404.1	410.2	416.5	428.4	445.0	469.8	508.8	568.8	664.7
45°	357.0	357.0	360.9	363.5	370.6	381.4	394.9	415.5	442.5	486.9	550.7
47.5°	317.9	318.0	320.5	325.1	329.5	338.0	351.3	368.1	387.8	422.1	476.6
50°	295.4	295.9	297.5	301.3	304.0	311.6	321.9	336.5	357.0	383.5	429.0
52.5°	277.2	276.9	278.9	280.5	282.4	287.8	295.5	308.3	326.8	349.8	387.4
55°	247.8	245.6	248.8	251.5	253.2	255.4	259.7	267.7	283.5	303.0	331.1
57.5°	211.0	210.1	212.4	214.8	220.0	225.8	229.5	234.6	242.8	256.7	284.6
60°	180.7	180.7	185.6	187.2	193.1	200.7	208.3	212.6	220.7	229.9	250.5
62.5°	153.8	154.3	156.5	158.2	161.5	170.8	181.4	190.9	198.6	207.4	221.0
65°	128.7	129.8	129.8	130.9	133.1	135.3	139.6	147.2	160.7	173.1	183.4
67.5°	109.3	109.6	109.9	111.0	111.5	113.9	115.7	119.0	122.1	134.0	146.7
70°	96.3	97.9	97.3	98.5	99.0	100.0	102.2	103.9	108.8	111.5	119.0
72.5°	84.1	85.4	85.3	85.9	87.3	87.6	89.3	90.9	94.0	96.3	100.4
75°	68.2	67.6	68.2	69.2	69.8	70.4	70.4	72.5	74.1	76.3	79.0
77.5°	52.6	53.2	53.0	53.2	53.2	54.2	54.1	55.0	56.7	57.8	59.1
80°	42.2	42.7	42.2	42.7	43.3	43.8	43.3	43.8	45.4	46.6	46.6
82.5°	32.7	32.8	33.1	33.2	33.3	33.4	34.2	34.3	35.5	35.3	35.7
85°	19.5	18.9	18.9	18.9	19.5	20.0	19.5	19.5	20.0	20.0	20.0
87.5°	13.4	13.8	13.7	13.7	13.6	13.6	13.7	14.3	13.9	14.4	13.0
90°	32.2	32.0	31.8	31.6	31.4	31.5	31.9	32.3	32.7	33.2	28.5
92.5°	30.7	30.7	30.6	30.6	30.5	30.5	30.3	30.2	30.2	30.1	29.0
95°	58.7	59.1	59.6	60.0	60.4	60.6	60.6	60.6	60.6	60.6	60.2
97.5°	101.7	101.7	101.8	101.8	101.9	101.9	101.9	101.9	101.9	101.9	101.1
100°	129.7	130.0	130.2	130.4	130.6	130.7	130.7	130.7	130.7	130.7	130.0
102.5°	161.6	161.8	162.0	162.2	162.4	162.4	162.2	162.1	161.9	161.8	160.9
105°	210.3	210.3	210.3	210.3	210.3	210.0	209.6	209.2	208.8	208.3	207.9
107.5°	256.1	257.1	258.0	259.0	259.9	260.3	260.2	260.0	259.8	259.7	259.7
110°	291.7	292.3	292.9	293.6	294.2	294.6	294.6	294.6	294.6	294.6	294.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	325.8	326.3	326.7	327.2	327.7	328.2	328.6	329.1	329.6	330.1	330.3
115°	378.8	379.4	380.1	380.7	381.3	381.7	382.0	382.2	382.4	382.6	383.0
117.5°	429.4	430.0	430.6	431.3	431.9	432.5	433.0	433.5	434.0	434.5	435.7
120°	465.0	465.6	466.3	466.9	467.5	467.8	467.8	467.8	467.8	467.8	469.5
122.5°	499.9	500.3	500.8	501.2	501.7	502.1	502.7	503.2	503.7	504.2	505.4
125°	553.1	553.3	553.5	553.7	553.9	554.3	555.0	555.6	556.2	556.8	557.5
127.5°	601.5	602.3	602.9	603.6	604.2	605.0	605.7	606.5	607.2	608.0	608.8
130°	636.4	637.2	638.1	639.0	639.8	640.4	640.8	641.2	641.6	642.1	642.5
132.5°	669.8	670.4	671.1	671.8	672.5	673.3	674.2	675.1	676.0	676.9	676.9
135°	721.6	722.3	722.9	723.5	724.1	724.6	724.8	725.0	725.2	725.5	725.0
137.5°	768.6	769.5	770.3	771.1	772.0	772.5	772.7	772.8	773.0	773.1	772.6
140°	801.2	802.0	802.9	803.7	804.5	804.9	804.9	804.9	804.9	804.9	804.0
142.5°	830.7	831.6	832.4	833.2	834.1	834.5	834.3	834.1	834.0	833.8	833.1
145°	875.1	875.9	876.8	877.6	878.4	878.7	878.6	878.3	878.1	877.9	876.6
147.5°	914.7	915.4	916.2	917.0	917.9	918.0	917.5	917.1	916.6	916.2	915.3
150°	940.4	941.0	941.7	942.3	943.0	943.0	942.3	941.7	941.0	940.4	939.6
152.5°	964.7	965.5	966.3	967.0	967.8	967.8	967.0	966.3	965.5	964.7	963.7
155°	997.2	997.8	998.5	999.1	999.7	999.6	998.5	997.4	996.4	995.3	994.7
157.5°	1025.2	1026.3	1027.3	1028.3	1029.3	1029.1	1027.7	1026.2	1024.8	1023.4	1023.0
160°	1042.7	1043.5	1044.4	1045.2	1046.0	1045.9	1044.6	1043.3	1042.0	1040.8	1040.6
162.5°	1057.9	1058.8	1059.9	1060.9	1061.8	1061.7	1060.2	1058.8	1057.4	1056.0	1055.7
165°	1077.7	1078.8	1079.9	1080.9	1081.9	1081.7	1080.3	1078.8	1077.3	1075.9	1075.9
167.5°	1094.1	1095.1	1096.2	1097.3	1098.4	1098.2	1096.7	1095.3	1093.8	1092.3	1092.3
170°	1102.4	1103.6	1104.9	1106.1	1107.4	1107.3	1105.8	1104.3	1102.9	1101.4	1101.6
172.5°	1109.1	1110.4	1111.7	1113.0	1114.2	1114.1	1112.6	1111.2	1109.7	1108.2	1108.4
175°	1116.6	1117.9	1119.1	1120.4	1121.6	1121.5	1120.1	1118.6	1117.1	1115.6	1116.1
177.5°	1120.0	1121.0	1122.0	1123.0	1124.0	1124.0	1123.0	1122.0	1121.0	1120.0	1120.3
180°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1594.1	1590.6	1587.6	1579.8	1575.9	1567.2	1565.9	1565.5	1554.3	1543.4	1540.4
5°	1648.9	1640.2	1627.2	1612.1	1596.4	1580.1	1569.3	1560.6	1539.0	1518.5	1506.6
7.5°	1704.1	1685.4	1663.0	1634.3	1610.5	1583.6	1563.7	1545.8	1515.2	1485.7	1465.9
10°	1745.1	1714.8	1685.1	1645.6	1614.8	1584.5	1556.3	1532.0	1497.4	1458.4	1430.9
12.5°	1770.7	1737.3	1696.3	1657.7	1617.8	1579.2	1541.6	1510.3	1469.7	1429.5	1396.6
15°	1805.2	1769.4	1719.7	1664.5	1613.2	1562.8	1519.6	1480.6	1427.6	1379.4	1339.4
17.5°	1833.4	1784.3	1730.9	1667.0	1607.5	1543.6	1487.8	1438.1	1379.1	1321.0	1273.8
20°	1842.5	1793.8	1732.2	1668.3	1598.0	1522.8	1462.7	1408.7	1345.3	1282.1	1228.0
22.5°	1836.9	1799.0	1730.4	1654.0	1582.0	1503.3	1435.5	1372.7	1302.5	1238.0	1175.2
25°	1798.7	1785.7	1720.8	1637.4	1555.3	1463.9	1385.4	1316.7	1236.6	1167.4	1099.2
27.5°	1709.7	1737.6	1697.5	1608.7	1517.3	1419.3	1331.1	1252.9	1169.8	1091.8	1023.9
30°	1624.0	1688.3	1671.0	1588.8	1486.5	1390.2	1291.3	1209.6	1120.9	1040.8	973.7
32.5°	1506.7	1613.0	1629.9	1561.1	1455.4	1349.6	1245.9	1164.6	1072.0	987.6	922.2
35°	1320.0	1479.0	1552.0	1508.2	1402.2	1288.0	1180.9	1086.2	993.2	909.9	845.0
37.5°	1097.1	1313.8	1435.5	1438.6	1341.2	1222.5	1106.0	1011.9	916.7	834.9	764.7
40°	952.6	1187.4	1345.9	1381.0	1298.9	1170.6	1052.7	956.9	863.9	783.8	703.3
42.5°	822.8	1056.7	1251.6	1312.7	1247.3	1120.0	1001.7	901.6	811.1	735.4	653.1
45°	665.4	869.8	1084.6	1193.9	1157.6	1039.8	914.8	819.5	734.6	669.2	590.2
47.5°	561.3	705.4	913.2	1061.0	1060.4	952.8	829.8	738.7	659.8	598.5	534.6
50°	502.0	627.5	803.3	971.0	985.0	894.7	777.9	687.5	614.0	549.6	498.2
52.5°	448.7	552.2	710.3	871.1	911.1	832.8	719.5	636.1	564.7	505.5	461.5
55°	379.2	459.3	579.4	729.8	790.4	735.2	634.5	556.7	498.8	449.0	411.2
57.5°	320.8	380.8	477.2	598.3	668.9	634.1	551.1	487.9	438.3	393.3	363.4
60°	284.0	333.2	414.9	516.1	593.9	569.6	498.8	439.8	397.6	358.7	330.5
62.5°	249.4	291.7	361.7	443.8	515.2	505.2	447.3	397.8	360.9	325.3	301.5
65°	200.7	231.5	286.2	350.6	407.9	412.8	371.1	337.5	304.6	276.5	255.4
67.5°	159.8	179.9	218.4	272.6	315.6	330.9	305.5	279.9	253.7	232.0	213.7
70°	134.7	150.9	179.0	222.9	262.4	278.6	264.0	243.9	221.3	203.4	187.7
72.5°	109.2	125.0	145.7	177.9	211.7	229.3	224.2	209.8	191.4	176.6	161.8
75°	82.3	87.1	101.2	122.8	149.3	164.4	168.3	160.7	146.0	134.7	126.0
77.5°	60.8	63.8	70.4	81.8	99.1	112.6	118.1	117.2	107.2	100.6	92.5
80°	48.7	50.3	53.6	58.5	71.4	85.0	88.7	88.7	81.7	79.0	70.8
82.5°	37.0	38.2	40.1	42.8	48.9	60.7	64.9	65.8	61.3	57.8	51.4
85°	21.1	20.5	21.6	23.2	24.4	27.6	34.1	35.1	34.1	29.8	28.1
87.5°	12.1	11.7	10.7	9.5	9.5	9.5	11.1	12.7	11.5	10.7	10.4
90°	23.9	19.2	14.6	11.1	8.6	6.0	3.5	1.0	3.5	6.0	8.6
92.5°	28.0	26.8	25.8	24.3	22.4	20.5	18.7	16.9	18.7	20.5	22.4
95°	59.8	59.4	58.9	57.6	55.5	53.5	51.4	49.2	51.4	53.5	55.5
97.5°	100.3	99.5	98.7	97.3	95.6	93.7	91.8	90.0	91.8	93.7	95.6
100°	129.4	128.8	128.2	127.0	125.3	123.7	122.0	120.3	122.0	123.7	125.3
102.5°	160.1	159.4	158.6	157.5	156.1	154.8	153.4	152.1	153.4	154.8	156.1
105°	207.5	207.1	206.7	206.1	205.5	204.9	204.2	203.6	204.2	204.9	205.5
107.5°	259.7	259.7	259.7	259.2	258.3	257.4	256.4	255.5	256.4	257.4	258.3
110°	294.6	294.6	294.6	293.9	292.6	291.4	290.1	288.9	290.1	291.4	292.6



TEST NUMBER: P331730-930

CATALOG NUMBER: SA2XXRDIP-C865D1080U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	330.4	330.6	330.8	330.3	329.0	327.8	326.4	325.2	326.4	327.8	329.0
115°	383.4	383.8	384.3	383.8	382.6	381.3	380.1	378.8	380.1	381.3	382.6
117.5°	436.8	438.1	439.2	439.0	437.2	435.6	433.9	432.2	433.9	435.6	437.2
120°	471.2	472.9	474.6	474.6	472.9	471.2	469.5	467.8	469.5	471.2	472.9
122.5°	506.5	507.8	508.9	508.5	506.5	504.4	502.5	500.4	502.5	504.4	506.5
125°	558.2	558.7	559.4	558.7	556.8	555.0	553.1	551.1	553.1	555.0	556.8
127.5°	609.5	610.3	611.1	610.2	607.8	605.4	603.0	600.6	603.0	605.4	607.8
130°	642.9	643.4	643.8	642.6	639.8	637.2	634.4	631.7	634.4	637.2	639.8
132.5°	676.8	676.7	676.6	675.5	673.2	671.0	668.8	666.5	668.8	671.0	673.2
135°	724.6	724.1	723.7	722.4	720.1	717.8	715.4	713.1	715.4	717.8	720.1
137.5°	772.1	771.5	770.9	769.7	767.8	766.0	764.1	762.1	764.1	766.0	767.8
140°	802.9	801.8	800.8	799.3	797.4	795.5	793.6	791.7	793.6	795.5	797.4
142.5°	832.3	831.6	830.9	829.6	827.7	825.8	823.9	822.1	823.9	825.8	827.7
145°	875.4	874.1	872.9	871.5	870.0	868.5	867.1	865.6	867.1	868.5	870.0
147.5°	914.5	913.6	912.8	911.5	909.7	907.9	906.2	904.4	906.2	907.9	909.7
150°	938.7	937.9	937.0	936.0	934.7	933.4	932.2	930.9	932.2	933.4	934.7
152.5°	962.6	961.6	960.6	959.4	958.2	956.9	955.7	954.4	955.7	956.9	958.2
155°	994.1	993.4	992.8	992.2	991.6	990.9	990.3	989.7	990.3	990.9	991.6
157.5°	1022.6	1022.2	1021.8	1021.5	1021.0	1020.6	1020.2	1019.8	1020.2	1020.6	1021.0
160°	1040.4	1040.2	1039.9	1039.7	1039.2	1038.8	1038.4	1038.0	1038.4	1038.8	1039.2
162.5°	1055.5	1055.3	1055.1	1055.0	1054.8	1054.8	1054.7	1054.6	1054.7	1054.8	1054.8
165°	1075.9	1075.9	1075.9	1076.0	1076.1	1076.4	1076.6	1076.8	1076.6	1076.4	1076.1
167.5°	1092.4	1092.4	1092.5	1092.8	1093.5	1094.1	1094.7	1095.4	1094.7	1094.1	1093.5
170°	1101.8	1102.0	1102.3	1102.7	1103.3	1103.9	1104.6	1105.2	1104.6	1103.9	1103.3
172.5°	1108.6	1108.9	1109.1	1109.5	1110.1	1110.8	1111.4	1112.0	1111.4	1110.8	1110.1
175°	1116.5	1116.9	1117.3	1117.9	1118.4	1119.1	1119.7	1120.4	1119.7	1119.1	1118.4
177.5°	1120.6	1121.0	1121.3	1121.8	1122.3	1122.7	1123.2	1123.7	1123.2	1122.7	1122.3
180°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3



TEST NUMBER: P331730-930

CATALOG NUMBER: SA2XXRDIP-C865D1080U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1534.8	1531.8	1526.2	1517.5	1512.3	1503.2	1497.1	1500.6	1501.5	1500.6	1499.7
5°	1493.5	1482.2	1466.6	1451.4	1437.3	1422.2	1413.5	1409.7	1402.2	1397.8	1395.7
7.5°	1443.7	1424.2	1401.9	1375.6	1353.2	1329.7	1317.7	1311.7	1296.2	1287.8	1280.4
10°	1406.5	1375.7	1353.5	1318.8	1297.8	1266.9	1245.9	1246.3	1225.2	1213.3	1204.7
12.5°	1365.4	1331.5	1294.6	1263.5	1234.1	1209.3	1184.0	1173.6	1151.3	1139.8	1116.4
15°	1297.2	1257.8	1218.8	1176.6	1146.8	1108.4	1071.6	1026.7	990.5	959.1	950.5
17.5°	1222.8	1173.9	1134.8	1085.2	1034.3	969.7	927.1	901.0	879.1	862.6	850.3
20°	1171.7	1121.9	1080.3	1005.7	936.9	893.2	861.8	841.7	819.0	801.2	791.4
22.5°	1118.0	1066.1	1009.3	926.0	872.5	837.3	809.3	786.4	770.9	757.0	748.1
25°	1041.9	985.0	891.5	834.1	790.8	754.1	734.6	720.6	704.3	685.4	676.7
27.5°	961.4	871.1	803.9	761.2	719.9	696.0	678.5	657.5	642.9	634.5	625.4
30°	901.2	810.9	758.4	711.9	682.7	656.2	635.6	623.7	609.7	595.1	589.1
32.5°	834.1	762.0	711.7	672.9	643.3	620.7	604.5	585.2	575.0	566.1	553.6
35°	750.8	696.2	650.2	618.9	590.8	572.3	553.4	542.0	523.7	516.1	511.2
37.5°	680.3	632.9	598.6	565.5	543.2	522.9	511.3	493.3	485.3	474.7	464.5
40°	640.5	593.9	561.0	533.9	509.1	493.9	479.3	464.7	452.8	447.9	435.5
42.5°	599.8	562.0	529.0	499.3	482.7	466.6	448.2	437.4	425.1	417.2	409.5
45°	543.6	510.1	482.0	457.6	439.3	422.5	410.6	392.7	385.7	370.0	363.5
47.5°	494.3	463.2	436.3	413.2	395.3	384.3	366.9	352.9	341.7	332.1	323.7
50°	459.3	433.3	407.3	386.8	370.6	354.9	337.0	330.0	312.7	307.8	303.0
52.5°	427.2	402.6	378.8	358.7	342.4	327.2	311.4	302.3	290.6	285.8	282.2
55°	382.5	358.7	335.9	318.0	301.8	286.2	276.5	265.1	259.7	255.8	251.5
57.5°	337.5	316.0	298.6	280.5	264.2	251.8	240.5	233.7	228.0	223.1	217.9
60°	308.9	288.3	272.6	255.8	239.1	228.9	220.1	212.1	205.5	198.0	195.8
62.5°	278.6	260.7	246.2	229.9	215.3	205.9	197.6	190.0	182.2	171.1	168.1
65°	236.9	222.9	207.7	194.2	181.2	172.0	160.1	151.5	148.2	147.2	146.6
67.5°	199.3	186.0	173.0	159.1	147.3	138.8	132.7	131.4	129.1	128.5	127.0
70°	174.1	161.8	148.8	135.7	124.4	122.8	120.7	118.5	115.8	114.7	113.6
72.5°	151.6	138.8	125.8	115.4	110.6	108.5	106.3	104.2	102.3	101.3	100.6
75°	116.3	104.4	95.7	92.0	89.3	87.6	84.4	82.8	81.7	80.1	79.5
77.5°	83.7	77.0	73.1	70.7	67.8	66.1	64.2	62.6	61.5	61.1	60.3
80°	63.8	60.6	57.9	54.6	53.6	51.4	50.9	49.2	49.7	48.2	48.2
82.5°	49.6	45.4	43.1	41.7	40.6	38.8	38.3	37.5	37.7	36.4	36.4
85°	25.4	24.4	23.2	22.2	22.2	20.5	21.1	20.5	20.5	19.5	18.9
87.5°	10.4	10.7	10.8	11.7	12.6	13.1	13.0	12.6	12.5	12.3	11.9
90°	11.1	14.6	19.2	23.9	28.5	33.2	32.7	32.3	31.9	31.5	31.4
92.5°	24.3	25.8	26.8	28.0	29.0	30.1	30.2	30.2	30.3	30.5	30.5
95°	57.6	58.9	59.4	59.8	60.2	60.6	60.6	60.6	60.6	60.6	60.4
97.5°	97.3	98.7	99.5	100.3	101.1	101.9	101.9	101.9	101.9	101.9	101.9
100°	127.0	128.2	128.8	129.4	130.0	130.7	130.7	130.7	130.7	130.7	130.6
102.5°	157.5	158.6	159.4	160.1	160.9	161.8	161.9	162.1	162.2	162.4	162.4
105°	206.1	206.7	207.1	207.5	207.9	208.3	208.8	209.2	209.6	210.0	210.3
107.5°	259.2	259.7	259.7	259.7	259.7	259.7	259.8	260.0	260.2	260.3	259.9
110°	293.9	294.6	294.6	294.6	294.6	294.6	294.6	294.6	294.6	294.6	294.2



TEST NUMBER: P331730-930

CATALOG NUMBER: SA2XXRDIP-C865D1080U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	330.3	330.8	330.6	330.4	330.3	330.1	329.6	329.1	328.6	328.2	327.7
115°	383.8	384.3	383.8	383.4	383.0	382.6	382.4	382.2	382.0	381.7	381.3
117.5°	439.0	439.2	438.1	436.8	435.7	434.5	434.0	433.5	433.0	432.5	431.9
120°	474.6	474.6	472.9	471.2	469.5	467.8	467.8	467.8	467.8	467.8	467.5
122.5°	508.5	508.9	507.8	506.5	505.4	504.2	503.7	503.2	502.7	502.1	501.7
125°	558.7	559.4	558.7	558.2	557.5	556.8	556.2	555.6	555.0	554.3	553.9
127.5°	610.2	611.1	610.3	609.5	608.8	608.0	607.2	606.5	605.7	605.0	604.2
130°	642.6	643.8	643.4	642.9	642.5	642.1	641.6	641.2	640.8	640.4	639.8
132.5°	675.5	676.6	676.7	676.8	676.9	676.9	676.0	675.1	674.2	673.3	672.5
135°	722.4	723.7	724.1	724.6	725.0	725.5	725.2	725.0	724.8	724.6	724.1
137.5°	769.7	770.9	771.5	772.1	772.6	773.1	773.0	772.8	772.7	772.5	772.0
140°	799.3	800.8	801.8	802.9	804.0	804.9	804.9	804.9	804.9	804.9	804.5
142.5°	829.6	830.9	831.6	832.3	833.1	833.8	834.0	834.1	834.3	834.5	834.1
145°	871.5	872.9	874.1	875.4	876.6	877.9	878.1	878.3	878.6	878.7	878.4
147.5°	911.5	912.8	913.6	914.5	915.3	916.2	916.6	917.1	917.5	918.0	917.9
150°	936.0	937.0	937.9	938.7	939.6	940.4	941.0	941.7	942.3	943.0	943.0
152.5°	959.4	960.6	961.6	962.6	963.7	964.7	965.5	966.3	967.0	967.8	967.8
155°	992.2	992.8	993.4	994.1	994.7	995.3	996.4	997.4	998.5	999.6	999.7
157.5°	1021.5	1021.8	1022.2	1022.6	1023.0	1023.4	1024.8	1026.2	1027.7	1029.1	1029.3
160°	1039.7	1039.9	1040.2	1040.4	1040.6	1040.8	1042.0	1043.3	1044.6	1045.9	1046.0
162.5°	1055.0	1055.1	1055.3	1055.5	1055.7	1056.0	1057.4	1058.8	1060.2	1061.7	1061.8
165°	1076.0	1075.9	1075.9	1075.9	1075.9	1075.9	1077.3	1078.8	1080.3	1081.7	1081.9
167.5°	1092.8	1092.5	1092.4	1092.4	1092.3	1092.3	1093.8	1095.3	1096.7	1098.2	1098.4
170°	1102.7	1102.3	1102.0	1101.8	1101.6	1101.4	1102.9	1104.3	1105.8	1107.3	1107.4
172.5°	1109.5	1109.1	1108.9	1108.6	1108.4	1108.2	1109.7	1111.2	1112.6	1114.1	1114.2
175°	1117.9	1117.3	1116.9	1116.5	1116.1	1115.6	1117.1	1118.6	1120.1	1121.5	1121.6
177.5°	1121.8	1121.3	1121.0	1120.6	1120.3	1120.0	1121.0	1122.0	1123.0	1124.0	1124.0
180°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3



TEST NUMBER: P331730-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1495.0	1495.8	1494.5	1495.4	1494.5	1495.8	1495.0	1499.7	1500.6	1501.5	1500.6
5°	1392.9	1386.5	1385.4	1383.8	1385.4	1386.5	1392.9	1395.7	1397.8	1402.2	1409.7
7.5°	1271.1	1270.2	1267.5	1263.7	1267.5	1270.2	1271.1	1280.4	1287.8	1296.2	1311.7
10°	1192.8	1190.1	1189.6	1185.8	1189.6	1190.1	1192.8	1204.7	1213.3	1225.2	1246.3
12.5°	1101.1	1083.6	1081.8	1072.4	1081.8	1083.6	1101.1	1116.4	1139.8	1151.3	1173.6
15°	937.5	934.3	923.4	916.4	923.4	934.3	937.5	950.5	959.1	990.5	1026.7
17.5°	844.0	833.4	830.1	828.5	830.1	833.4	844.0	850.3	862.6	879.1	901.0
20°	783.8	774.1	772.5	771.4	772.5	774.1	783.8	791.4	801.2	819.0	841.7
22.5°	742.3	732.1	727.9	724.6	727.9	732.1	742.3	748.1	757.0	770.9	786.4
25°	671.3	667.6	665.4	664.3	665.4	667.6	671.3	676.7	685.4	704.3	720.6
27.5°	615.8	607.5	605.8	603.1	605.8	607.5	615.8	625.4	634.5	642.9	657.5
30°	584.2	581.6	577.7	574.5	577.7	581.6	584.2	589.1	595.1	609.7	623.7
32.5°	547.0	544.8	541.4	539.9	541.4	544.8	547.0	553.6	566.1	575.0	585.2
35°	505.8	498.2	495.0	490.1	495.0	498.2	505.8	511.2	516.1	523.7	542.0
37.5°	462.2	458.2	453.6	455.3	453.6	458.2	462.2	464.5	474.7	485.3	493.3
40°	428.4	425.7	424.7	424.1	424.7	425.7	428.4	435.5	447.9	452.8	464.7
42.5°	401.6	394.1	391.3	391.2	391.3	394.1	401.6	409.5	417.2	425.1	437.4
45°	360.9	353.8	348.9	349.4	348.9	353.8	360.9	363.5	370.0	385.7	392.7
47.5°	319.0	318.9	315.8	316.8	315.8	318.9	319.0	323.7	332.1	341.7	352.9
50°	299.1	295.9	293.8	294.2	293.8	295.9	299.1	303.0	307.8	312.7	330.0
52.5°	280.1	277.3	275.6	277.9	275.6	277.3	280.1	282.2	285.8	290.6	302.3
55°	248.8	245.6	245.1	244.5	245.1	245.6	248.8	251.5	255.8	259.7	265.1
57.5°	213.9	211.7	208.5	207.1	208.5	211.7	213.9	217.9	223.1	228.0	233.7
60°	188.8	184.5	179.0	178.6	179.0	184.5	188.8	195.8	198.0	205.5	212.1
62.5°	165.8	165.0	163.9	163.8	163.9	165.0	165.8	168.1	171.1	182.2	190.0
65°	145.5	145.0	145.5	146.0	145.5	145.0	145.5	146.6	147.2	148.2	151.5
67.5°	126.8	125.8	124.8	125.3	124.8	125.8	126.8	127.0	128.5	129.1	131.4
70°	112.5	111.9	111.5	111.5	111.5	111.9	112.5	113.6	114.7	115.8	118.5
72.5°	98.7	98.6	98.0	97.6	98.0	98.6	98.7	100.6	101.3	102.3	104.2
75°	79.0	77.9	77.9	77.9	77.9	77.9	79.0	79.5	80.1	81.7	82.8
77.5°	60.2	59.6	59.1	58.6	59.1	59.6	60.2	60.3	61.1	61.5	62.6
80°	47.6	47.0	46.6	46.6	46.6	47.0	47.6	48.2	48.2	49.7	49.2
82.5°	36.4	35.8	35.7	35.3	35.7	35.8	36.4	36.4	36.4	37.7	37.5
85°	19.5	20.0	19.5	20.5	19.5	20.0	19.5	18.9	19.5	20.5	20.5
87.5°	11.9	11.6	12.0	11.7	12.0	11.6	11.9	11.9	12.3	12.5	12.6
90°	31.6	31.8	32.0	32.2	32.0	31.8	31.6	31.4	31.5	31.9	32.3
92.5°	30.6	30.6	30.7	30.7	30.7	30.6	30.6	30.5	30.5	30.3	30.2
95°	60.0	59.6	59.1	58.7	59.1	59.6	60.0	60.4	60.6	60.6	60.6
97.5°	101.8	101.8	101.7	101.7	101.7	101.8	101.8	101.9	101.9	101.9	101.9
100°	130.4	130.2	130.0	129.7	130.0	130.2	130.4	130.6	130.7	130.7	130.7
102.5°	162.2	162.0	161.8	161.6	161.8	162.0	162.2	162.4	162.4	162.2	162.1
105°	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.0	209.6	209.2
107.5°	259.0	258.0	257.1	256.1	257.1	258.0	259.0	259.9	260.3	260.2	260.0
110°	293.6	292.9	292.3	291.7	292.3	292.9	293.6	294.2	294.6	294.6	294.6



TEST NUMBER: P331730-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	327.2	326.7	326.3	325.8	326.3	326.7	327.2	327.7	328.2	328.6	329.1
115°	380.7	380.1	379.4	378.8	379.4	380.1	380.7	381.3	381.7	382.0	382.2
117.5°	431.3	430.6	430.0	429.4	430.0	430.6	431.3	431.9	432.5	433.0	433.5
120°	466.9	466.3	465.6	465.0	465.6	466.3	466.9	467.5	467.8	467.8	467.8
122.5°	501.2	500.8	500.3	499.9	500.3	500.8	501.2	501.7	502.1	502.7	503.2
125°	553.7	553.5	553.3	553.1	553.3	553.5	553.7	553.9	554.3	555.0	555.6
127.5°	603.6	602.9	602.3	601.5	602.3	602.9	603.6	604.2	605.0	605.7	606.5
130°	639.0	638.1	637.2	636.4	637.2	638.1	639.0	639.8	640.4	640.8	641.2
132.5°	671.8	671.1	670.4	669.8	670.4	671.1	671.8	672.5	673.3	674.2	675.1
135°	723.5	722.9	722.3	721.6	722.3	722.9	723.5	724.1	724.6	724.8	725.0
137.5°	771.1	770.3	769.5	768.6	769.5	770.3	771.1	772.0	772.5	772.7	772.8
140°	803.7	802.9	802.0	801.2	802.0	802.9	803.7	804.5	804.9	804.9	804.9
142.5°	833.2	832.4	831.6	830.7	831.6	832.4	833.2	834.1	834.5	834.3	834.1
145°	877.6	876.8	875.9	875.1	875.9	876.8	877.6	878.4	878.7	878.6	878.3
147.5°	917.0	916.2	915.4	914.7	915.4	916.2	917.0	917.9	918.0	917.5	917.1
150°	942.3	941.7	941.0	940.4	941.0	941.7	942.3	943.0	943.0	942.3	941.7
152.5°	967.0	966.3	965.5	964.7	965.5	966.3	967.0	967.8	967.8	967.0	966.3
155°	999.1	998.5	997.8	997.2	997.8	998.5	999.1	999.7	999.6	998.5	997.4
157.5°	1028.3	1027.3	1026.3	1025.2	1026.3	1027.3	1028.3	1029.3	1029.1	1027.7	1026.2
160°	1045.2	1044.4	1043.5	1042.7	1043.5	1044.4	1045.2	1046.0	1045.9	1044.6	1043.3
162.5°	1060.9	1059.9	1058.8	1057.9	1058.8	1059.9	1060.9	1061.8	1061.7	1060.2	1058.8
165°	1080.9	1079.9	1078.8	1077.7	1078.8	1079.9	1080.9	1081.9	1081.7	1080.3	1078.8
167.5°	1097.3	1096.2	1095.1	1094.1	1095.1	1096.2	1097.3	1098.4	1098.2	1096.7	1095.3
170°	1106.1	1104.9	1103.6	1102.4	1103.6	1104.9	1106.1	1107.4	1107.3	1105.8	1104.3
172.5°	1113.0	1111.7	1110.4	1109.1	1110.4	1111.7	1113.0	1114.2	1114.1	1112.6	1111.2
175°	1120.4	1119.1	1117.9	1116.6	1117.9	1119.1	1120.4	1121.6	1121.5	1120.1	1118.6
177.5°	1123.0	1122.0	1121.0	1120.0	1121.0	1122.0	1123.0	1124.0	1124.0	1123.0	1122.0
180°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3



TEST NUMBER: P331730-930

CATALOG NUMBER: SA2XXRDIP-C865D1080U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1497.1	1503.2	1512.3	1517.5	1526.2	1531.8	1534.8	1540.4	1543.4	1554.3	1565.5
5°	1413.5	1422.2	1437.3	1451.4	1466.6	1482.2	1493.5	1506.6	1518.5	1539.0	1560.6
7.5°	1317.7	1329.7	1353.2	1375.6	1401.9	1424.2	1443.7	1465.9	1485.7	1515.2	1545.8
10°	1245.9	1266.9	1297.8	1318.8	1353.5	1375.7	1406.5	1430.9	1458.4	1497.4	1532.0
12.5°	1184.0	1209.3	1234.1	1263.5	1294.6	1331.5	1365.4	1396.6	1429.5	1469.7	1510.3
15°	1071.6	1108.4	1146.8	1176.6	1218.8	1257.8	1297.2	1339.4	1379.4	1427.6	1480.6
17.5°	927.1	969.7	1034.3	1085.2	1134.8	1173.9	1222.8	1273.8	1321.0	1379.1	1438.1
20°	861.8	893.2	936.9	1005.7	1080.3	1121.9	1171.7	1228.0	1282.1	1345.3	1408.7
22.5°	809.3	837.3	872.5	926.0	1009.3	1066.1	1118.0	1175.2	1238.0	1302.5	1372.7
25°	734.6	754.1	790.8	834.1	891.5	985.0	1041.9	1099.2	1167.4	1236.6	1316.7
27.5°	678.5	696.0	719.9	761.2	803.9	871.1	961.4	1023.9	1091.8	1169.8	1252.9
30°	635.6	656.2	682.7	711.9	758.4	810.9	901.2	973.7	1040.8	1120.9	1209.6
32.5°	604.5	620.7	643.3	672.9	711.7	762.0	834.1	922.2	987.6	1072.0	1164.6
35°	553.4	572.3	590.8	618.9	650.2	696.2	750.8	845.0	909.9	993.2	1086.2
37.5°	511.3	522.9	543.2	565.5	598.6	632.9	680.3	764.7	834.9	916.7	1011.9
40°	479.3	493.9	509.1	533.9	561.0	593.9	640.5	703.3	783.8	863.9	956.9
42.5°	448.2	466.6	482.7	499.3	529.0	562.0	599.8	653.1	735.4	811.1	901.6
45°	410.6	422.5	439.3	457.6	482.0	510.1	543.6	590.2	669.2	734.6	819.5
47.5°	366.9	384.3	395.3	413.2	436.3	463.2	494.3	534.6	598.5	659.8	738.7
50°	337.0	354.9	370.6	386.8	407.3	433.3	459.3	498.2	549.6	614.0	687.5
52.5°	311.4	327.2	342.4	358.7	378.8	402.6	427.2	461.5	505.5	564.7	636.1
55°	276.5	286.2	301.8	318.0	335.9	358.7	382.5	411.2	449.0	498.8	556.7
57.5°	240.5	251.8	264.2	280.5	298.6	316.0	337.5	363.4	393.3	438.3	487.9
60°	220.1	228.9	239.1	255.8	272.6	288.3	308.9	330.5	358.7	397.6	439.8
62.5°	197.6	205.9	215.3	229.9	246.2	260.7	278.6	301.5	325.3	360.9	397.8
65°	160.1	172.0	181.2	194.2	207.7	222.9	236.9	255.4	276.5	304.6	337.5
67.5°	132.7	138.8	147.3	159.1	173.0	186.0	199.3	213.7	232.0	253.7	279.9
70°	120.7	122.8	124.4	135.7	148.8	161.8	174.1	187.7	203.4	221.3	243.9
72.5°	106.3	108.5	110.6	115.4	125.8	138.8	151.6	161.8	176.6	191.4	209.8
75°	84.4	87.6	89.3	92.0	95.7	104.4	116.3	126.0	134.7	146.0	160.7
77.5°	64.2	66.1	67.8	70.7	73.1	77.0	83.7	92.5	100.6	107.2	117.2
80°	50.9	51.4	53.6	54.6	57.9	60.6	63.8	70.8	79.0	81.7	88.7
82.5°	38.3	38.8	40.6	41.7	43.1	45.4	49.6	51.4	57.8	61.3	65.8
85°	21.1	20.5	22.2	22.2	23.2	24.4	25.4	28.1	29.8	34.1	35.1
87.5°	13.0	13.1	12.6	11.7	10.8	10.7	10.4	10.4	10.7	11.5	12.7
90°	32.7	33.2	28.5	23.9	19.2	14.6	11.1	8.6	6.0	3.5	1.0
92.5°	30.2	30.1	29.0	28.0	26.8	25.8	24.3	22.4	20.5	18.7	16.9
95°	60.6	60.6	60.2	59.8	59.4	58.9	57.6	55.5	53.5	51.4	49.2
97.5°	101.9	101.9	101.1	100.3	99.5	98.7	97.3	95.6	93.7	91.8	90.0
100°	130.7	130.7	130.0	129.4	128.8	128.2	127.0	125.3	123.7	122.0	120.3
102.5°	161.9	161.8	160.9	160.1	159.4	158.6	157.5	156.1	154.8	153.4	152.1
105°	208.8	208.3	207.9	207.5	207.1	206.7	206.1	205.5	204.9	204.2	203.6
107.5°	259.8	259.7	259.7	259.7	259.7	259.7	259.2	258.3	257.4	256.4	255.5
110°	294.6	294.6	294.6	294.6	294.6	294.6	293.9	292.6	291.4	290.1	288.9



TEST NUMBER: P331730-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	329.6	330.1	330.3	330.4	330.6	330.8	330.3	329.0	327.8	326.4	325.2
115°	382.4	382.6	383.0	383.4	383.8	384.3	383.8	382.6	381.3	380.1	378.8
117.5°	434.0	434.5	435.7	436.8	438.1	439.2	439.0	437.2	435.6	433.9	432.2
120°	467.8	467.8	469.5	471.2	472.9	474.6	474.6	472.9	471.2	469.5	467.8
122.5°	503.7	504.2	505.4	506.5	507.8	508.9	508.5	506.5	504.4	502.5	500.4
125°	556.2	556.8	557.5	558.2	558.7	559.4	558.7	556.8	555.0	553.1	551.1
127.5°	607.2	608.0	608.8	609.5	610.3	611.1	610.2	607.8	605.4	603.0	600.6
130°	641.6	642.1	642.5	642.9	643.4	643.8	642.6	639.8	637.2	634.4	631.7
132.5°	676.0	676.9	676.9	676.8	676.7	676.6	675.5	673.2	671.0	668.8	666.5
135°	725.2	725.5	725.0	724.6	724.1	723.7	722.4	720.1	717.8	715.4	713.1
137.5°	773.0	773.1	772.6	772.1	771.5	770.9	769.7	767.8	766.0	764.1	762.1
140°	804.9	804.9	804.0	802.9	801.8	800.8	799.3	797.4	795.5	793.6	791.7
142.5°	834.0	833.8	833.1	832.3	831.6	830.9	829.6	827.7	825.8	823.9	822.1
145°	878.1	877.9	876.6	875.4	874.1	872.9	871.5	870.0	868.5	867.1	865.6
147.5°	916.6	916.2	915.3	914.5	913.6	912.8	911.5	909.7	907.9	906.2	904.4
150°	941.0	940.4	939.6	938.7	937.9	937.0	936.0	934.7	933.4	932.2	930.9
152.5°	965.5	964.7	963.7	962.6	961.6	960.6	959.4	958.2	956.9	955.7	954.4
155°	996.4	995.3	994.7	994.1	993.4	992.8	992.2	991.6	990.9	990.3	989.7
157.5°	1024.8	1023.4	1023.0	1022.6	1022.2	1021.8	1021.5	1021.0	1020.6	1020.2	1019.8
160°	1042.0	1040.8	1040.6	1040.4	1040.2	1039.9	1039.7	1039.2	1038.8	1038.4	1038.0
162.5°	1057.4	1056.0	1055.7	1055.5	1055.3	1055.1	1055.0	1054.8	1054.8	1054.7	1054.6
165°	1077.3	1075.9	1075.9	1075.9	1075.9	1075.9	1076.0	1076.1	1076.4	1076.6	1076.8
167.5°	1093.8	1092.3	1092.3	1092.4	1092.4	1092.5	1092.8	1093.5	1094.1	1094.7	1095.4
170°	1102.9	1101.4	1101.6	1101.8	1102.0	1102.3	1102.7	1103.3	1103.9	1104.6	1105.2
172.5°	1109.7	1108.2	1108.4	1108.6	1108.9	1109.1	1109.5	1110.1	1110.8	1111.4	1112.0
175°	1117.1	1115.6	1116.1	1116.5	1116.9	1117.3	1117.9	1118.4	1119.1	1119.7	1120.4
177.5°	1121.0	1120.0	1120.3	1120.6	1121.0	1121.3	1121.8	1122.3	1122.7	1123.2	1123.7
180°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1565.9	1567.2	1575.9	1579.8	1587.6	1590.6	1594.1	1593.3	1593.3	1595.0	1607.1
5°	1569.3	1580.1	1596.4	1612.1	1627.2	1640.2	1648.9	1657.5	1660.8	1676.4	1690.5
7.5°	1563.7	1583.6	1610.5	1634.3	1663.0	1685.4	1704.1	1720.8	1732.3	1755.1	1778.5
10°	1556.3	1584.5	1614.8	1645.6	1685.1	1714.8	1745.1	1768.4	1776.0	1810.0	1829.5
12.5°	1541.6	1579.2	1617.8	1657.7	1696.3	1737.3	1770.7	1793.9	1820.6	1851.1	1887.1
15°	1519.6	1562.8	1613.2	1664.5	1719.7	1769.4	1805.2	1845.8	1874.9	1908.5	1939.8
17.5°	1487.8	1543.6	1607.5	1667.0	1730.9	1784.3	1833.4	1872.3	1892.9	1912.0	1916.7
20°	1462.7	1522.8	1598.0	1668.3	1732.2	1793.8	1842.5	1874.9	1880.4	1880.9	1852.3
22.5°	1435.5	1503.3	1582.0	1654.0	1730.4	1799.0	1836.9	1850.7	1829.3	1792.6	1737.2
25°	1385.4	1463.9	1555.3	1637.4	1720.8	1785.7	1798.7	1774.3	1699.2	1620.2	1520.1
27.5°	1331.1	1419.3	1517.3	1608.7	1697.5	1737.6	1709.7	1621.9	1486.5	1368.7	1226.0
30°	1291.3	1390.2	1486.5	1588.8	1671.0	1688.3	1624.0	1494.7	1336.7	1159.3	1017.0
32.5°	1245.9	1349.6	1455.4	1561.1	1629.9	1613.0	1506.7	1347.5	1162.3	987.9	853.5
35°	1180.9	1288.0	1402.2	1508.2	1552.0	1479.0	1320.0	1112.7	923.4	760.6	668.1
37.5°	1106.0	1222.5	1341.2	1438.6	1435.5	1313.8	1097.1	883.3	724.1	627.9	562.0
40°	1052.7	1170.6	1298.9	1381.0	1345.9	1187.4	952.6	750.8	634.5	557.7	509.6
42.5°	1001.7	1120.0	1247.3	1312.7	1251.6	1056.7	822.8	664.7	568.8	508.8	469.8
45°	914.8	1039.8	1157.6	1193.9	1084.6	869.8	665.4	550.7	486.9	442.5	415.5
47.5°	829.8	952.8	1060.4	1061.0	913.2	705.4	561.3	476.6	422.1	387.8	368.1
50°	777.9	894.7	985.0	971.0	803.3	627.5	502.0	429.0	383.5	357.0	336.5
52.5°	719.5	832.8	911.1	871.1	710.3	552.2	448.7	387.4	349.8	326.8	308.3
55°	634.5	735.2	790.4	729.8	579.4	459.3	379.2	331.1	303.0	283.5	267.7
57.5°	551.1	634.1	668.9	598.3	477.2	380.8	320.8	284.6	256.7	242.8	234.6
60°	498.8	569.6	593.9	516.1	414.9	333.2	284.0	250.5	229.9	220.7	212.6
62.5°	447.3	505.2	515.2	443.8	361.7	291.7	249.4	221.0	207.4	198.6	190.9
65°	371.1	412.8	407.9	350.6	286.2	231.5	200.7	183.4	173.1	160.7	147.2
67.5°	305.5	330.9	315.6	272.6	218.4	179.9	159.8	146.7	134.0	122.1	119.0
70°	264.0	278.6	262.4	222.9	179.0	150.9	134.7	119.0	111.5	108.8	103.9
72.5°	224.2	229.3	211.7	177.9	145.7	125.0	109.2	100.4	96.3	94.0	90.9
75°	168.3	164.4	149.3	122.8	101.2	87.1	82.3	79.0	76.3	74.1	72.5
77.5°	118.1	112.6	99.1	81.8	70.4	63.8	60.8	59.1	57.8	56.7	55.0
80°	88.7	85.0	71.4	58.5	53.6	50.3	48.7	46.6	46.6	45.4	43.8
82.5°	64.9	60.7	48.9	42.8	40.1	38.2	37.0	35.7	35.3	35.5	34.3
85°	34.1	27.6	24.4	23.2	21.6	20.5	21.1	20.0	20.0	20.0	19.5
87.5°	11.1	9.5	9.5	9.5	10.7	11.7	12.1	13.0	14.4	13.9	14.3
90°	3.5	6.0	8.6	11.1	14.6	19.2	23.9	28.5	33.2	32.7	32.3
92.5°	18.7	20.5	22.4	24.3	25.8	26.8	28.0	29.0	30.1	30.2	30.2
95°	51.4	53.5	55.5	57.6	58.9	59.4	59.8	60.2	60.6	60.6	60.6
97.5°	91.8	93.7	95.6	97.3	98.7	99.5	100.3	101.1	101.9	101.9	101.9
100°	122.0	123.7	125.3	127.0	128.2	128.8	129.4	130.0	130.7	130.7	130.7
102.5°	153.4	154.8	156.1	157.5	158.6	159.4	160.1	160.9	161.8	161.9	162.1
105°	204.2	204.9	205.5	206.1	206.7	207.1	207.5	207.9	208.3	208.8	209.2
107.5°	256.4	257.4	258.3	259.2	259.7	259.7	259.7	259.7	259.7	259.8	260.0
110°	290.1	291.4	292.6	293.9	294.6	294.6	294.6	294.6	294.6	294.6	294.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	326.4	327.8	329.0	330.3	330.8	330.6	330.4	330.3	330.1	329.6	329.1
115°	380.1	381.3	382.6	383.8	384.3	383.8	383.4	383.0	382.6	382.4	382.2
117.5°	433.9	435.6	437.2	439.0	439.2	438.1	436.8	435.7	434.5	434.0	433.5
120°	469.5	471.2	472.9	474.6	474.6	472.9	471.2	469.5	467.8	467.8	467.8
122.5°	502.5	504.4	506.5	508.5	508.9	507.8	506.5	505.4	504.2	503.7	503.2
125°	553.1	555.0	556.8	558.7	559.4	558.7	558.2	557.5	556.8	556.2	555.6
127.5°	603.0	605.4	607.8	610.2	611.1	610.3	609.5	608.8	608.0	607.2	606.5
130°	634.4	637.2	639.8	642.6	643.8	643.4	642.9	642.5	642.1	641.6	641.2
132.5°	668.8	671.0	673.2	675.5	676.6	676.7	676.8	676.9	676.9	676.0	675.1
135°	715.4	717.8	720.1	722.4	723.7	724.1	724.6	725.0	725.5	725.2	725.0
137.5°	764.1	766.0	767.8	769.7	770.9	771.5	772.1	772.6	773.1	773.0	772.8
140°	793.6	795.5	797.4	799.3	800.8	801.8	802.9	804.0	804.9	804.9	804.9
142.5°	823.9	825.8	827.7	829.6	830.9	831.6	832.3	833.1	833.8	834.0	834.1
145°	867.1	868.5	870.0	871.5	872.9	874.1	875.4	876.6	877.9	878.1	878.3
147.5°	906.2	907.9	909.7	911.5	912.8	913.6	914.5	915.3	916.2	916.6	917.1
150°	932.2	933.4	934.7	936.0	937.0	937.9	938.7	939.6	940.4	941.0	941.7
152.5°	955.7	956.9	958.2	959.4	960.6	961.6	962.6	963.7	964.7	965.5	966.3
155°	990.3	990.9	991.6	992.2	992.8	993.4	994.1	994.7	995.3	996.4	997.4
157.5°	1020.2	1020.6	1021.0	1021.5	1021.8	1022.2	1022.6	1023.0	1023.4	1024.8	1026.2
160°	1038.4	1038.8	1039.2	1039.7	1039.9	1040.2	1040.4	1040.6	1040.8	1042.0	1043.3
162.5°	1054.7	1054.8	1054.8	1055.0	1055.1	1055.3	1055.5	1055.7	1056.0	1057.4	1058.8
165°	1076.6	1076.4	1076.1	1076.0	1075.9	1075.9	1075.9	1075.9	1075.9	1077.3	1078.8
167.5°	1094.7	1094.1	1093.5	1092.8	1092.5	1092.4	1092.4	1092.3	1092.3	1093.8	1095.3
170°	1104.6	1103.9	1103.3	1102.7	1102.3	1102.0	1101.8	1101.6	1101.4	1102.9	1104.3
172.5°	1111.4	1110.8	1110.1	1109.5	1109.1	1108.9	1108.6	1108.4	1108.2	1109.7	1111.2
175°	1119.7	1119.1	1118.4	1117.9	1117.3	1116.9	1116.5	1116.1	1115.6	1117.1	1118.6
177.5°	1123.2	1122.7	1122.3	1121.8	1121.3	1121.0	1120.6	1120.3	1120.0	1121.0	1122.0
180°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1611.4	1617.1	1619.6	1619.6	1622.7	1621.4	1620.1
5°	1704.1	1714.3	1716.4	1726.2	1733.2	1731.0	1732.2
7.5°	1796.1	1812.7	1829.0	1836.5	1837.6	1841.9	1843.6
10°	1852.8	1866.3	1891.7	1887.9	1906.9	1917.7	1899.8
12.5°	1907.3	1925.6	1943.3	1948.1	1958.8	1962.3	1955.3
15°	1956.6	1966.4	1967.5	1964.8	1968.0	1965.3	1955.0
17.5°	1910.6	1894.8	1862.7	1847.5	1835.6	1817.9	1810.7
20°	1834.4	1787.9	1733.7	1712.1	1686.7	1637.0	1648.9
22.5°	1670.0	1616.9	1562.8	1499.7	1469.5	1422.3	1419.4
25°	1414.1	1322.7	1222.1	1151.7	1110.6	1063.6	1042.9
27.5°	1099.4	984.3	901.9	860.1	822.1	784.8	783.3
30°	892.6	806.0	742.2	706.5	683.2	667.6	670.8
32.5°	752.4	693.1	650.0	620.4	603.2	591.3	591.2
35°	615.1	574.5	546.9	534.4	522.0	513.4	513.9
37.5°	526.4	502.0	486.7	472.9	465.1	460.9	458.5
40°	480.9	460.9	449.0	440.9	434.4	428.4	427.4
42.5°	445.0	428.4	416.5	410.2	404.1	399.9	398.8
45°	394.9	381.4	370.6	363.5	360.9	357.0	357.0
47.5°	351.3	338.0	329.5	325.1	320.5	318.0	317.9
50°	321.9	311.6	304.0	301.3	297.5	295.9	295.4
52.5°	295.5	287.8	282.4	280.5	278.9	276.9	277.2
55°	259.7	255.4	253.2	251.5	248.8	245.6	247.8
57.5°	229.5	225.8	220.0	214.8	212.4	210.1	211.0
60°	208.3	200.7	193.1	187.2	185.6	180.7	180.7
62.5°	181.4	170.8	161.5	158.2	156.5	154.3	153.8
65°	139.6	135.3	133.1	130.9	129.8	129.8	128.7
67.5°	115.7	113.9	111.5	111.0	109.9	109.6	109.3
70°	102.2	100.0	99.0	98.5	97.3	97.9	96.3
72.5°	89.3	87.6	87.3	85.9	85.3	85.4	84.1
75°	70.4	70.4	69.8	69.2	68.2	67.6	68.2
77.5°	54.1	54.2	53.2	53.2	53.0	53.2	52.6
80°	43.3	43.8	43.3	42.7	42.2	42.7	42.2
82.5°	34.2	33.4	33.3	33.2	33.1	32.8	32.7
85°	19.5	20.0	19.5	18.9	18.9	18.9	19.5
87.5°	13.7	13.6	13.6	13.7	13.7	13.8	13.4
90°	31.9	31.5	31.4	31.6	31.8	32.0	32.2
92.5°	30.3	30.5	30.5	30.6	30.6	30.7	30.7
95°	60.6	60.6	60.4	60.0	59.6	59.1	58.7
97.5°	101.9	101.9	101.9	101.8	101.8	101.7	101.7
100°	130.7	130.7	130.6	130.4	130.2	130.0	129.7
102.5°	162.2	162.4	162.4	162.2	162.0	161.8	161.6
105°	209.6	210.0	210.3	210.3	210.3	210.3	210.3
107.5°	260.2	260.3	259.9	259.0	258.0	257.1	256.1
110°	294.6	294.6	294.2	293.6	292.9	292.3	291.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	328.6	328.2	327.7	327.2	326.7	326.3	325.8
115°	382.0	381.7	381.3	380.7	380.1	379.4	378.8
117.5°	433.0	432.5	431.9	431.3	430.6	430.0	429.4
120°	467.8	467.8	467.5	466.9	466.3	465.6	465.0
122.5°	502.7	502.1	501.7	501.2	500.8	500.3	499.9
125°	555.0	554.3	553.9	553.7	553.5	553.3	553.1
127.5°	605.7	605.0	604.2	603.6	602.9	602.3	601.5
130°	640.8	640.4	639.8	639.0	638.1	637.2	636.4
132.5°	674.2	673.3	672.5	671.8	671.1	670.4	669.8
135°	724.8	724.6	724.1	723.5	722.9	722.3	721.6
137.5°	772.7	772.5	772.0	771.1	770.3	769.5	768.6
140°	804.9	804.9	804.5	803.7	802.9	802.0	801.2
142.5°	834.3	834.5	834.1	833.2	832.4	831.6	830.7
145°	878.6	878.7	878.4	877.6	876.8	875.9	875.1
147.5°	917.5	918.0	917.9	917.0	916.2	915.4	914.7
150°	942.3	943.0	943.0	942.3	941.7	941.0	940.4
152.5°	967.0	967.8	967.8	967.0	966.3	965.5	964.7
155°	998.5	999.6	999.7	999.1	998.5	997.8	997.2
157.5°	1027.7	1029.1	1029.3	1028.3	1027.3	1026.3	1025.2
160°	1044.6	1045.9	1046.0	1045.2	1044.4	1043.5	1042.7
162.5°	1060.2	1061.7	1061.8	1060.9	1059.9	1058.8	1057.9
165°	1080.3	1081.7	1081.9	1080.9	1079.9	1078.8	1077.7
167.5°	1096.7	1098.2	1098.4	1097.3	1096.2	1095.1	1094.1
170°	1105.8	1107.3	1107.4	1106.1	1104.9	1103.6	1102.4
172.5°	1112.6	1114.1	1114.2	1113.0	1111.7	1110.4	1109.1
175°	1120.1	1121.5	1121.6	1120.4	1119.1	1117.9	1116.6
177.5°	1123.0	1124.0	1124.0	1123.0	1122.0	1121.0	1120.0
180°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3

(END OF REPORT)