

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: P331568-930

Luminaire Tested: **S122DIW-S865D970U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331568-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S865D970U930-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5845.7 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

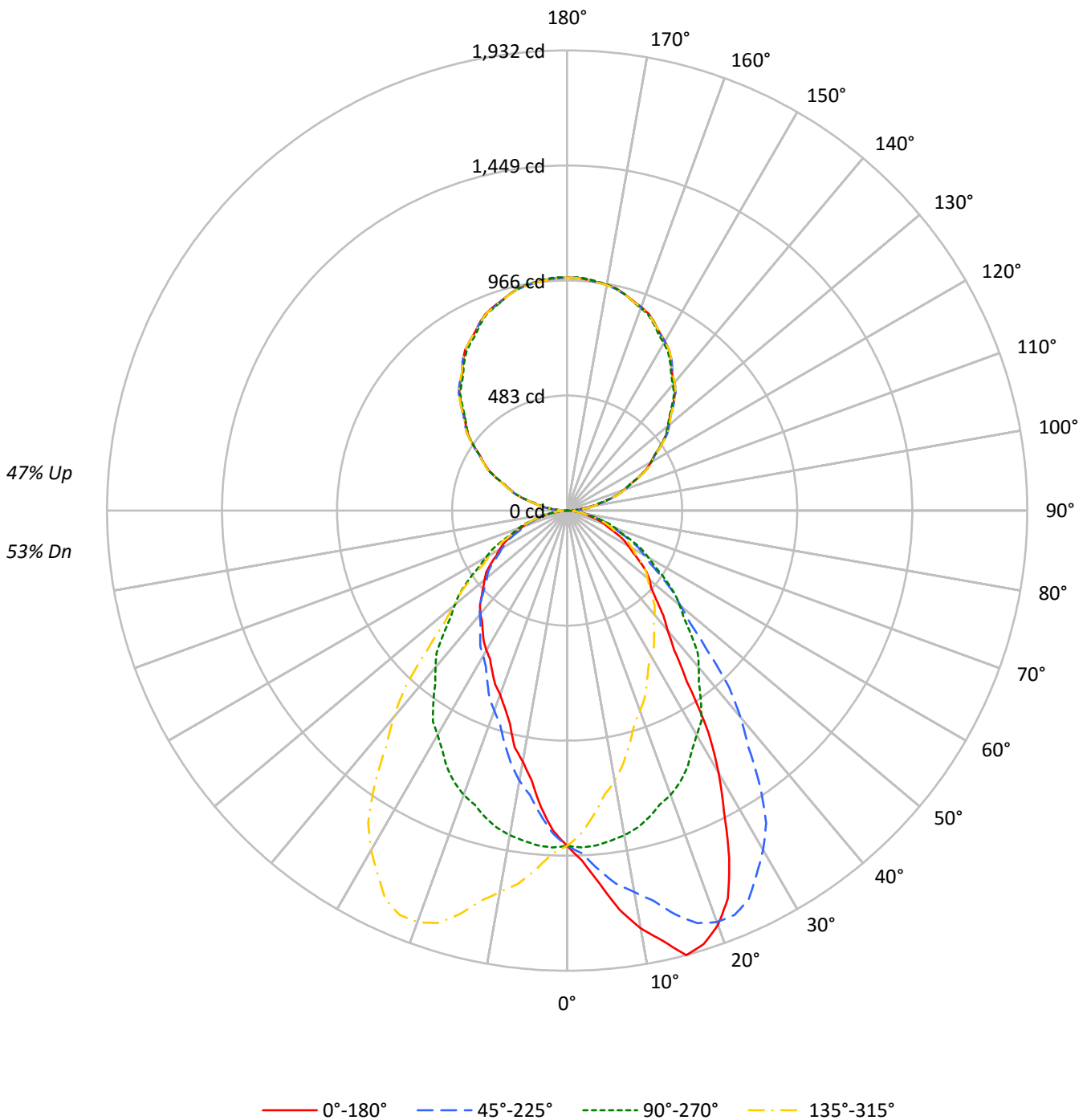
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	83	77	73	84	78	72	68	67	63	60	57	54	51	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	38	34
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	38	35	33	29
5	70	59	51	45	65	55	48	43	48	42	38	41	37	33	35	32	29	26
6	65	53	45	39	60	50	43	37	43	38	33	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	31	27	31	27	24	27	23	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	25	21	25	21	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	22727	22727	22727	22727
5°	25480	22875	20272	22875
10°	29198	22689	17544	22689
15°	32301	22272	15499	22272
20°	31809	21825	14129	21825
25°	28682	21232	13261	21232
30°	23702	20282	12629	20282
35°	17274	19291	12177	19291
40°	13797	18120	11927	18120
45°	12056	16762	11586	16762
50°	11333	15450	11359	15450
55°	10446	14117	11054	14117
60°	9571	12700	10585	12700
65°	8722	11427	10128	11427
70°	7917	10192	9451	10192
75°	7018	8808	8372	8808
80°	6034	7290	6741	7290
85°	5409	5409	4001	5409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	2.3
10°-20°	389.7	6.7
20°-30°	565.6	9.7
30°-40°	596.9	10.2
40°-50°	528.5	9.0
50°-60°	421.7	7.2
60°-70°	286.7	4.9
70°-80°	147.0	2.5
80°-90°	39.3	0.7
90°-100°	62.0	1.1
100°-110°	192.6	3.3
110°-120°	329.2	5.6
120°-130°	432.9	7.4
130°-140°	485.9	8.3
140°-150°	476.4	8.1
150°-160°	399.6	6.8
160°-170°	265.0	4.5
170°-180°	92.6	1.6
0°-30°	1089.4	18.6
0°-40°	1686.3	28.8
0°-60°	2636.5	45.1
0°-90°	3109.5	53.2
90°-120°	583.8	10.0
90°-150°	1979.0	33.9
90°-180°	2736.0	46.8
0°-180°	5845.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1408	1408	1408	1408	1408	
5°	1572	1411	1251	1411	1572	157
15°	1932	1332	927	1332	1932	533
25°	1610	1192	744	1192	1610	728
35°	876	979	618	979	876	570
45°	528	734	507	734	528	415
55°	371	502	393	502	371	333
65°	228	299	265	299	228	227
75°	112	141	134	141	112	120
85°	29	29	22	29	29	33
90°	28	1	28	1	28	14
95°	51	43	51	43	51	57
105°	183	178	183	178	183	193
115°	330	330	330	330	330	326
125°	482	481	482	481	482	430
135°	629	622	629	622	629	484
145°	763	755	763	755	763	476
155°	870	863	870	863	870	400
165°	940	939	940	939	940	265
175°	974	977	974	977	974	92
180°	978	978	978	978	978	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1472.6	1473.0	1473.9	1467.0	1466.1	1466.1	1460.0	1454.8	1448.8	1440.6	1441.4
5°	1572.1	1578.1	1580.2	1573.8	1564.0	1562.9	1553.7	1538.6	1524.5	1513.1	1505.0
7.5°	1690.9	1693.3	1688.0	1679.4	1672.2	1659.2	1642.1	1625.4	1601.9	1580.4	1564.3
10°	1780.9	1784.2	1775.0	1762.5	1752.2	1737.1	1712.2	1686.8	1656.0	1626.2	1602.4
12.5°	1849.3	1857.3	1845.5	1843.9	1826.3	1805.5	1775.9	1763.0	1719.6	1678.1	1652.6
15°	1932.4	1931.9	1933.0	1922.6	1909.7	1906.4	1875.1	1841.0	1779.9	1755.5	1713.4
17.5°	1908.4	1916.6	1920.4	1920.3	1919.9	1917.9	1907.9	1886.4	1855.7	1816.2	1767.5
20°	1851.3	1862.1	1863.7	1876.2	1883.2	1892.4	1896.1	1890.2	1871.3	1838.3	1796.1
22.5°	1763.0	1766.0	1771.1	1790.5	1805.7	1828.8	1840.8	1860.8	1853.5	1837.4	1802.1
25°	1610.0	1604.6	1623.5	1633.2	1668.4	1705.2	1731.7	1760.9	1786.9	1802.5	1792.3
27.5°	1426.3	1418.1	1446.5	1472.3	1500.9	1540.8	1582.1	1630.8	1671.4	1722.2	1739.6
30°	1271.3	1276.2	1303.3	1330.8	1374.1	1430.4	1476.9	1530.5	1588.4	1645.1	1684.7
32.5°	1104.2	1123.0	1140.1	1182.3	1220.5	1283.2	1351.4	1418.4	1490.5	1555.1	1616.2
35°	876.4	898.1	921.9	952.7	1006.2	1068.4	1135.0	1225.3	1323.8	1412.0	1484.5
37.5°	737.7	734.3	747.9	770.1	813.5	863.7	940.4	1029.6	1145.5	1249.1	1351.4
40°	654.6	652.4	662.2	682.7	715.8	752.5	819.6	898.1	1005.7	1132.3	1254.0
42.5°	597.5	598.8	604.1	618.6	641.3	671.6	721.8	788.6	887.1	1006.3	1137.2
45°	528.0	531.8	537.8	544.8	557.7	582.6	610.7	658.4	736.3	835.8	964.6
47.5°	478.0	478.1	484.2	490.3	498.1	512.1	535.0	564.9	619.9	700.9	811.6
50°	451.2	447.4	451.8	456.6	464.7	474.4	489.6	517.7	554.5	620.0	712.5
52.5°	418.3	418.4	422.3	424.1	431.4	441.2	454.9	474.4	507.8	559.0	635.0
55°	371.1	373.8	376.0	379.2	385.7	392.7	403.6	416.5	442.5	480.9	537.2
57.5°	326.8	327.6	329.8	336.0	340.1	346.6	356.9	368.6	385.5	413.9	456.2
60°	296.4	296.4	300.8	303.5	308.9	315.4	323.5	334.8	350.0	373.2	407.4
62.5°	268.8	268.3	270.0	274.5	278.6	284.7	292.8	302.4	316.7	337.4	365.4
65°	228.3	227.2	230.5	231.5	235.9	241.8	248.3	258.6	269.9	285.1	310.0
67.5°	189.3	190.6	192.4	194.4	196.8	203.1	207.4	214.7	224.3	236.8	253.7
70°	167.7	167.7	167.7	169.3	172.6	175.9	180.2	186.1	195.3	206.1	221.3
72.5°	143.5	145.2	146.9	145.9	150.1	152.1	157.2	160.5	169.3	176.3	189.6
75°	112.5	112.5	112.5	115.2	116.8	118.5	121.7	125.0	129.3	137.9	145.0
77.5°	84.0	83.7	84.3	85.0	86.7	88.6	89.6	92.5	96.5	100.5	106.5
80°	64.9	66.0	66.5	67.6	67.6	68.7	69.2	73.1	75.7	78.4	82.3
82.5°	50.2	50.4	50.5	50.7	51.2	51.9	53.2	54.5	55.4	57.6	60.6
85°	29.2	28.7	28.7	29.8	29.2	29.2	30.3	31.4	31.4	31.9	33.5
87.5°	16.9	16.8	17.2	16.8	16.7	17.2	17.3	16.9	17.4	17.9	17.5
90°	28.0	27.9	27.7	27.6	27.3	27.4	27.8	28.1	28.5	28.9	24.9
92.5°	26.7	26.7	26.7	26.7	26.6	26.6	26.5	26.4	26.3	26.3	25.3
95°	51.2	51.5	51.9	52.3	52.7	52.8	52.8	52.8	52.8	52.8	52.5
97.5°	88.7	88.7	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.1
100°	113.2	113.3	113.5	113.7	113.9	114.0	114.0	114.0	114.0	114.0	113.4
102.5°	140.9	141.0	141.2	141.5	141.6	141.6	141.5	141.4	141.2	141.0	140.3
105°	183.4	183.4	183.4	183.4	183.4	183.1	182.8	182.4	182.1	181.6	181.3
107.5°	223.3	224.1	224.9	225.8	226.7	227.0	226.9	226.7	226.6	226.4	226.4
110°	254.4	254.9	255.4	256.0	256.6	256.8	256.8	256.8	256.8	256.8	256.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	284.1	284.5	284.9	285.3	285.7	286.1	286.6	287.0	287.4	287.9	288.0
115°	330.3	330.8	331.4	332.0	332.5	332.9	333.0	333.2	333.5	333.6	333.9
117.5°	374.4	375.0	375.5	376.1	376.6	377.1	377.6	378.0	378.5	378.9	379.9
120°	405.4	406.0	406.6	407.1	407.6	408.0	408.0	408.0	408.0	408.0	409.4
122.5°	435.9	436.3	436.7	437.1	437.5	437.9	438.3	438.8	439.2	439.6	440.7
125°	482.2	482.4	482.7	482.8	483.0	483.4	483.9	484.5	485.0	485.6	486.1
127.5°	524.6	525.1	525.7	526.3	526.8	527.5	528.2	528.8	529.5	530.2	530.8
130°	554.9	555.6	556.4	557.1	557.8	558.4	558.8	559.1	559.5	559.9	560.3
132.5°	584.0	584.6	585.1	585.8	586.4	587.0	587.8	588.6	589.5	590.3	590.2
135°	629.2	629.8	630.3	630.9	631.4	631.8	632.0	632.2	632.3	632.5	632.2
137.5°	670.2	670.9	671.6	672.4	673.1	673.6	673.8	673.8	674.0	674.2	673.7
140°	698.6	699.4	700.1	700.8	701.6	701.9	701.9	701.9	701.9	701.9	701.0
142.5°	724.4	725.1	725.9	726.6	727.3	727.6	727.5	727.3	727.2	727.0	726.4
145°	763.0	763.8	764.5	765.2	766.0	766.2	766.1	765.9	765.6	765.5	764.4
147.5°	797.5	798.3	798.9	799.6	800.3	800.5	800.1	799.6	799.2	798.8	798.1
150°	820.0	820.5	821.1	821.7	822.2	822.2	821.7	821.1	820.5	820.0	819.3
152.5°	841.1	841.8	842.5	843.3	843.9	843.9	843.3	842.5	841.8	841.1	840.2
155°	869.5	870.1	870.7	871.2	871.7	871.6	870.7	869.8	868.8	867.9	867.3
157.5°	894.0	894.9	895.8	896.7	897.5	897.3	896.1	894.9	893.6	892.3	892.0
160°	909.2	910.0	910.7	911.4	912.2	911.9	910.9	909.7	908.7	907.5	907.3
162.5°	922.4	923.2	924.1	925.0	925.9	925.8	924.5	923.2	922.0	920.7	920.6
165°	939.7	940.7	941.6	942.5	943.4	943.2	941.9	940.7	939.4	938.1	938.1
167.5°	954.0	954.9	955.9	956.8	957.7	957.6	956.3	955.0	953.7	952.4	952.5
170°	961.2	962.3	963.4	964.5	965.6	965.6	964.3	963.0	961.6	960.4	960.6
172.5°	967.2	968.2	969.4	970.5	971.6	971.4	970.2	968.9	967.6	966.3	966.5
175°	973.6	974.7	975.8	976.9	978.0	977.9	976.6	975.3	974.0	972.7	973.1
177.5°	976.6	977.5	978.4	979.2	980.1	980.1	979.2	978.4	977.5	976.6	976.9
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1444.5	1441.0	1438.8	1431.0	1424.1	1417.2	1415.0	1415.8	1406.4	1397.3	1393.3
5°	1500.7	1489.9	1479.6	1465.0	1447.7	1428.7	1419.0	1411.4	1392.5	1372.0	1360.1
7.5°	1551.1	1535.6	1515.9	1488.4	1463.1	1433.4	1414.5	1397.7	1370.0	1341.0	1323.2
10°	1581.8	1560.7	1535.3	1501.8	1471.0	1434.7	1409.2	1383.9	1351.4	1316.8	1295.1
12.5°	1608.3	1579.8	1554.8	1511.7	1475.3	1430.0	1399.8	1363.9	1329.8	1288.7	1267.5
15°	1671.1	1618.6	1571.0	1522.3	1477.4	1414.1	1380.6	1332.4	1287.5	1236.7	1212.4
17.5°	1719.7	1660.8	1585.8	1523.9	1471.5	1401.4	1352.2	1294.5	1241.4	1183.2	1150.1
20°	1747.4	1679.8	1599.1	1525.6	1462.8	1382.7	1329.2	1270.2	1208.0	1142.6	1106.9
22.5°	1763.8	1692.7	1613.0	1519.1	1445.5	1367.6	1300.2	1235.6	1172.6	1101.9	1064.5
25°	1769.0	1704.1	1619.8	1513.7	1423.9	1335.7	1254.6	1191.8	1115.5	1049.5	994.9
27.5°	1743.3	1696.7	1615.6	1503.5	1398.9	1295.8	1205.3	1134.2	1053.8	982.1	927.2
30°	1711.7	1684.7	1605.7	1493.1	1379.0	1268.1	1168.6	1087.9	1007.9	935.4	879.1
32.5°	1662.8	1656.9	1587.5	1478.4	1357.8	1233.1	1130.0	1048.6	959.9	888.6	834.9
35°	1566.7	1592.7	1548.8	1445.5	1317.8	1183.2	1071.7	978.7	886.7	818.5	768.2
37.5°	1437.9	1502.4	1490.9	1397.3	1264.0	1128.9	1005.8	908.6	820.9	752.1	702.7
40°	1349.2	1431.4	1443.3	1360.6	1225.9	1086.9	956.5	859.7	774.1	711.4	661.6
42.5°	1254.0	1350.1	1382.7	1316.5	1184.3	1042.7	912.3	812.0	727.4	666.4	622.2
45°	1094.5	1221.6	1280.5	1242.7	1115.0	970.0	835.8	734.1	657.3	600.0	565.9
47.5°	945.2	1084.1	1163.4	1150.1	1037.8	894.2	761.6	664.0	589.2	543.5	513.0
50°	839.6	982.4	1078.2	1082.6	982.4	840.2	707.1	615.1	546.4	503.7	478.7
52.5°	747.9	884.2	988.6	1011.5	920.6	783.9	658.2	566.6	506.1	466.8	444.6
55°	628.1	743.3	859.1	901.3	828.3	698.4	582.1	501.5	444.7	417.7	398.2
57.5°	522.2	618.2	725.1	771.8	726.8	615.6	506.5	436.6	390.4	366.8	351.9
60°	466.4	542.1	637.3	693.0	654.0	555.1	459.8	393.3	355.5	334.4	320.2
62.5°	414.4	481.5	562.0	612.9	591.7	498.4	413.1	354.3	321.6	301.9	291.7
65°	341.9	394.9	457.1	504.2	490.2	419.2	349.5	299.1	273.2	257.5	249.4
67.5°	281.5	319.8	363.0	404.2	392.9	342.7	286.6	247.4	228.1	214.6	209.7
70°	243.4	272.6	311.0	344.1	334.8	293.8	249.4	215.9	199.1	187.8	182.9
72.5°	207.1	231.1	260.4	287.4	281.2	247.0	210.0	184.7	171.8	161.3	157.4
75°	156.4	174.7	192.6	210.4	208.8	182.3	160.7	141.2	130.9	122.8	121.2
77.5°	115.4	125.7	137.9	148.5	145.5	130.4	113.4	102.2	94.7	89.3	88.4
80°	88.2	94.2	102.8	110.4	106.6	100.1	86.6	78.4	73.1	67.6	65.5
82.5°	63.9	69.9	75.1	79.2	76.3	70.2	61.9	56.3	53.2	49.4	48.6
85°	33.5	36.8	39.0	40.0	39.0	35.1	31.4	29.2	26.5	24.9	24.4
87.5°	17.1	16.3	15.6	15.8	14.0	13.6	11.4	9.7	9.7	9.7	9.3
90°	20.8	16.8	12.7	9.6	7.4	5.2	3.0	0.8	3.0	5.2	7.4
92.5°	24.4	23.4	22.4	21.2	19.6	17.9	16.3	14.7	16.3	17.9	19.6
95°	52.1	51.8	51.4	50.3	48.4	46.6	44.8	43.0	44.8	46.6	48.4
97.5°	87.5	86.7	86.1	84.9	83.3	81.7	80.1	78.4	80.1	81.7	83.3
100°	112.8	112.3	111.8	110.7	109.3	107.8	106.3	104.8	106.3	107.8	109.3
102.5°	139.7	138.9	138.3	137.3	136.2	134.9	133.8	132.6	133.8	134.9	136.2
105°	180.9	180.6	180.2	179.8	179.2	178.6	178.1	177.6	178.1	178.6	179.2
107.5°	226.4	226.4	226.4	226.0	225.2	224.4	223.6	222.8	223.6	224.4	225.2
110°	256.8	256.8	256.8	256.2	255.2	254.0	253.0	251.8	253.0	254.0	255.2



TEST NUMBER: P331568-930

CATALOG NUMBER: S122DIW-S865D970U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	288.1	288.3	288.5	288.0	286.9	285.8	284.7	283.6	284.7	285.8	286.9
115°	334.4	334.7	335.1	334.7	333.6	332.5	331.4	330.3	331.4	332.5	333.6
117.5°	380.9	382.0	382.9	382.8	381.3	379.8	378.4	376.9	378.4	379.8	381.3
120°	410.9	412.4	413.8	413.8	412.4	410.9	409.4	408.0	409.4	410.9	412.4
122.5°	441.7	442.7	443.8	443.4	441.6	439.9	438.1	436.3	438.1	439.9	441.6
125°	486.7	487.2	487.8	487.2	485.6	483.9	482.2	480.6	482.2	483.9	485.6
127.5°	531.5	532.1	532.8	532.1	530.0	527.9	525.8	523.7	525.8	527.9	530.0
130°	560.6	561.0	561.3	560.4	558.0	555.5	553.2	550.8	553.2	555.5	558.0
132.5°	590.1	590.0	590.0	589.0	587.0	585.1	583.1	581.1	583.1	585.1	587.0
135°	631.8	631.4	631.0	629.9	627.9	625.8	623.9	621.8	623.9	625.8	627.9
137.5°	673.2	672.7	672.3	671.2	669.5	667.9	666.3	664.6	666.3	667.9	669.5
140°	700.1	699.2	698.2	696.9	695.3	693.7	692.0	690.3	692.0	693.7	695.3
142.5°	725.8	725.1	724.6	723.4	721.7	720.1	718.4	716.8	718.4	720.1	721.7
145°	763.3	762.2	761.1	759.9	758.6	757.3	756.0	754.7	756.0	757.3	758.6
147.5°	797.4	796.6	795.9	794.8	793.2	791.7	790.2	788.6	790.2	791.7	793.2
150°	818.6	817.8	817.1	816.1	815.1	813.9	812.9	811.7	812.9	813.9	815.1
152.5°	839.4	838.5	837.6	836.7	835.5	834.5	833.3	832.3	833.3	834.5	835.5
155°	866.8	866.3	865.7	865.1	864.6	864.1	863.5	862.9	863.5	864.1	864.6
157.5°	891.7	891.4	891.0	890.6	890.3	889.9	889.6	889.2	889.6	889.9	890.3
160°	907.2	907.0	906.8	906.5	906.1	905.8	905.4	905.1	905.4	905.8	906.1
162.5°	920.4	920.2	920.0	919.9	919.8	919.7	919.7	919.6	919.7	919.7	919.8
165°	938.1	938.1	938.1	938.2	938.3	938.6	938.7	938.9	938.7	938.6	938.3
167.5°	952.5	952.6	952.6	952.9	953.4	954.0	954.6	955.1	954.6	954.0	953.4
170°	960.7	960.9	961.2	961.5	962.1	962.6	963.1	963.7	963.1	962.6	962.1
172.5°	966.7	966.9	967.0	967.4	968.0	968.5	969.1	969.6	969.1	968.5	968.0
175°	973.5	973.9	974.2	974.7	975.3	975.8	976.3	976.9	976.3	975.8	975.3
177.5°	977.1	977.5	977.7	978.1	978.5	979.0	979.4	979.9	979.4	979.0	978.5
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



TEST NUMBER: P331568-930

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1389.0	1386.4	1377.4	1372.6	1364.8	1357.5	1352.7	1354.9	1356.6	1355.7	1354.5
5°	1349.2	1339.0	1323.2	1309.7	1300.0	1282.1	1274.6	1270.8	1267.5	1263.7	1260.0
7.5°	1301.9	1285.6	1263.1	1243.8	1225.6	1203.5	1190.8	1183.2	1175.5	1166.9	1159.4
10°	1268.1	1245.4	1221.6	1194.5	1172.9	1152.8	1135.0	1123.1	1112.3	1102.0	1094.5
12.5°	1232.6	1206.4	1177.0	1140.0	1116.1	1087.5	1084.8	1063.8	1046.9	1040.6	1031.7
15°	1176.2	1139.3	1102.0	1058.2	1039.3	1013.3	997.0	980.8	966.2	955.9	953.2
17.5°	1112.0	1064.4	1027.2	995.7	964.7	938.1	923.2	910.2	898.1	884.4	882.6
20°	1063.1	1021.9	981.4	953.7	921.9	894.8	876.4	863.4	853.1	845.1	838.0
22.5°	1016.8	971.8	934.6	904.4	872.9	851.1	836.6	824.0	815.5	806.5	799.9
25°	942.4	907.3	866.7	832.6	806.6	792.6	780.6	769.8	764.4	758.5	750.9
27.5°	877.3	838.3	800.4	774.0	751.1	738.7	730.3	722.8	717.8	714.3	710.0
30°	831.5	792.0	762.2	736.3	717.4	704.9	699.5	695.2	689.3	687.1	684.9
32.5°	787.3	751.8	726.4	703.8	685.7	677.7	672.7	668.8	664.1	661.9	657.6
35°	725.0	695.2	670.3	657.9	643.3	636.2	632.4	627.0	622.6	620.5	620.0
37.5°	666.2	640.3	623.9	608.0	601.8	597.5	592.3	588.6	587.3	586.9	586.4
40°	628.1	607.0	592.4	579.4	576.7	570.2	565.9	562.6	562.6	563.2	562.6
42.5°	593.5	574.5	561.7	550.4	547.2	543.4	539.1	538.8	539.7	541.5	539.7
45°	541.0	527.5	518.3	512.8	506.9	503.1	502.6	504.2	504.8	505.3	506.9
47.5°	492.8	483.7	475.4	469.4	466.8	466.2	465.5	468.4	471.0	472.0	474.4
50°	464.1	453.9	446.9	443.0	440.9	439.9	440.9	444.2	446.3	449.0	450.6
52.5°	432.1	424.9	420.0	417.1	416.2	416.9	417.1	420.8	424.3	425.2	426.0
55°	387.9	382.5	381.4	376.5	378.7	378.1	380.8	383.0	386.3	389.6	390.0
57.5°	343.7	339.4	336.5	337.0	337.6	340.0	342.3	346.0	349.5	352.9	353.3
60°	314.3	312.2	310.5	310.5	311.6	314.9	317.6	321.3	323.5	325.7	327.3
62.5°	287.5	285.4	283.7	284.5	287.4	289.3	292.4	294.5	296.7	298.8	299.6
65°	245.1	244.0	245.6	246.7	247.2	250.0	253.7	255.4	257.5	258.6	262.4
67.5°	206.0	206.2	206.0	207.5	210.7	211.3	214.9	218.7	219.1	221.2	223.6
70°	179.6	180.7	181.8	182.9	185.6	186.6	189.3	190.9	193.1	194.8	196.4
72.5°	155.4	155.6	156.7	156.5	158.7	161.1	163.4	165.0	167.1	169.3	170.8
75°	119.5	119.5	120.7	121.2	123.9	126.6	126.0	127.1	129.3	131.4	132.6
77.5°	87.3	86.1	87.3	87.9	88.7	91.0	91.4	92.9	95.4	94.7	95.9
80°	66.5	64.9	66.5	67.1	67.1	69.8	69.8	70.8	72.5	70.8	72.5
82.5°	47.5	46.7	47.9	48.0	48.9	49.0	49.9	50.1	51.7	51.0	51.7
85°	23.8	23.2	23.8	23.2	23.8	24.4	24.4	23.8	23.8	24.9	23.2
87.5°	9.3	9.5	9.9	10.7	11.0	11.4	10.9	10.8	10.8	9.8	9.8
90°	9.6	12.7	16.8	20.8	24.9	28.9	28.5	28.1	27.8	27.4	27.3
92.5°	21.2	22.4	23.4	24.4	25.3	26.3	26.3	26.4	26.5	26.6	26.6
95°	50.3	51.4	51.8	52.1	52.5	52.8	52.8	52.8	52.8	52.8	52.7
97.5°	84.9	86.1	86.7	87.5	88.1	88.9	88.9	88.9	88.9	88.9	88.9
100°	110.7	111.8	112.3	112.8	113.4	114.0	114.0	114.0	114.0	114.0	113.9
102.5°	137.3	138.3	138.9	139.7	140.3	141.0	141.2	141.4	141.5	141.6	141.6
105°	179.8	180.2	180.6	180.9	181.3	181.6	182.1	182.4	182.8	183.1	183.4
107.5°	226.0	226.4	226.4	226.4	226.4	226.4	226.6	226.7	226.9	227.0	226.7
110°	256.2	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	288.0	288.5	288.3	288.1	288.0	287.9	287.4	287.0	286.6	286.1	285.7
115°	334.7	335.1	334.7	334.4	333.9	333.6	333.5	333.2	333.0	332.9	332.5
117.5°	382.8	382.9	382.0	380.9	379.9	378.9	378.5	378.0	377.6	377.1	376.6
120°	413.8	413.8	412.4	410.9	409.4	408.0	408.0	408.0	408.0	408.0	407.6
122.5°	443.4	443.8	442.7	441.7	440.7	439.6	439.2	438.8	438.3	437.9	437.5
125°	487.2	487.8	487.2	486.7	486.1	485.6	485.0	484.5	483.9	483.4	483.0
127.5°	532.1	532.8	532.1	531.5	530.8	530.2	529.5	528.8	528.2	527.5	526.8
130°	560.4	561.3	561.0	560.6	560.3	559.9	559.5	559.1	558.8	558.4	557.8
132.5°	589.0	590.0	590.0	590.1	590.2	590.3	589.5	588.6	587.8	587.0	586.4
135°	629.9	631.0	631.4	631.8	632.2	632.5	632.3	632.2	632.0	631.8	631.4
137.5°	671.2	672.3	672.7	673.2	673.7	674.2	674.0	673.8	673.8	673.6	673.1
140°	696.9	698.2	699.2	700.1	701.0	701.9	701.9	701.9	701.9	701.9	701.6
142.5°	723.4	724.6	725.1	725.8	726.4	727.0	727.2	727.3	727.5	727.6	727.3
145°	759.9	761.1	762.2	763.3	764.4	765.5	765.6	765.9	766.1	766.2	766.0
147.5°	794.8	795.9	796.6	797.4	798.1	798.8	799.2	799.6	800.1	800.5	800.3
150°	816.1	817.1	817.8	818.6	819.3	820.0	820.5	821.1	821.7	822.2	822.2
152.5°	836.7	837.6	838.5	839.4	840.2	841.1	841.8	842.5	843.3	843.9	843.9
155°	865.1	865.7	866.3	866.8	867.3	867.9	868.8	869.8	870.7	871.6	871.7
157.5°	890.6	891.0	891.4	891.7	892.0	892.3	893.6	894.9	896.1	897.3	897.5
160°	906.5	906.8	907.0	907.2	907.3	907.5	908.7	909.7	910.9	911.9	912.2
162.5°	919.9	920.0	920.2	920.4	920.6	920.7	922.0	923.2	924.5	925.8	925.9
165°	938.2	938.1	938.1	938.1	938.1	938.1	939.4	940.7	941.9	943.2	943.4
167.5°	952.9	952.6	952.6	952.5	952.5	952.4	953.7	955.0	956.3	957.6	957.7
170°	961.5	961.2	960.9	960.7	960.6	960.4	961.6	963.0	964.3	965.6	965.6
172.5°	967.4	967.0	966.9	966.7	966.5	966.3	967.6	968.9	970.2	971.4	971.6
175°	974.7	974.2	973.9	973.5	973.1	972.7	974.0	975.3	976.6	977.9	978.0
177.5°	978.1	977.7	977.5	977.1	976.9	976.6	977.5	978.4	979.2	980.1	980.1
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



TEST NUMBER: P331568-930

CATALOG NUMBER: S122DIW-S865D970U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1350.1	1349.2	1349.2	1345.3	1349.2	1349.2	1350.1	1354.5	1355.7	1356.6	1354.9
5°	1252.4	1250.8	1248.1	1250.8	1248.1	1250.8	1252.4	1260.0	1263.7	1267.5	1270.8
7.5°	1155.8	1149.2	1148.3	1141.9	1148.3	1149.2	1155.8	1159.4	1166.9	1175.5	1183.2
10°	1085.2	1080.9	1080.4	1070.1	1080.4	1080.9	1085.2	1094.5	1102.0	1112.3	1123.1
12.5°	1031.6	1021.2	1023.2	1017.2	1023.2	1021.2	1031.6	1031.7	1040.6	1046.9	1063.8
15°	938.7	938.7	936.5	927.2	936.5	938.7	938.7	953.2	955.9	966.2	980.8
17.5°	871.9	870.7	865.6	868.2	865.6	870.7	871.9	882.6	884.4	898.1	910.2
20°	832.0	828.8	822.3	822.3	822.3	828.8	832.0	838.0	845.1	853.1	863.4
22.5°	794.4	794.2	787.3	789.4	787.3	794.2	794.4	799.9	806.5	815.5	824.0
25°	750.3	746.0	742.8	744.4	742.8	746.0	750.3	750.9	758.5	764.4	769.8
27.5°	708.6	706.2	706.0	701.6	706.0	706.2	708.6	710.0	714.3	717.8	722.8
30°	684.4	679.0	680.0	677.4	680.0	679.0	684.4	684.9	687.1	689.3	695.2
32.5°	656.6	654.7	653.6	651.3	653.6	654.7	656.6	657.6	661.9	664.1	668.8
35°	618.9	619.5	616.7	617.8	616.7	619.5	618.9	620.0	620.5	622.6	627.0
37.5°	585.9	587.6	586.4	586.7	586.4	587.6	585.9	586.4	586.9	587.3	588.6
40°	564.3	564.3	564.3	565.9	564.3	564.3	564.3	562.6	563.2	562.6	562.6
42.5°	543.5	542.6	541.8	541.6	541.8	542.6	543.5	539.7	541.5	539.7	538.8
45°	508.0	509.6	510.1	507.4	510.1	509.6	508.0	506.9	505.3	504.8	504.2
47.5°	475.9	476.1	475.9	478.3	475.9	476.1	475.9	474.4	472.0	471.0	468.4
50°	453.4	452.2	453.4	452.2	453.4	452.2	453.4	450.6	449.0	446.3	444.2
52.5°	429.6	429.7	429.1	428.9	429.1	429.7	429.6	426.0	425.2	424.3	420.8
55°	392.2	393.3	392.7	392.7	392.7	393.3	392.2	390.0	389.6	386.3	383.0
57.5°	353.6	354.6	355.3	352.9	355.3	354.6	353.6	353.3	352.9	349.5	346.0
60°	326.8	329.5	328.9	327.8	328.9	329.5	326.8	327.3	325.7	323.5	321.3
62.5°	302.1	303.0	303.0	302.7	303.0	303.0	302.1	299.6	298.8	296.7	294.5
65°	264.0	265.1	263.4	265.1	263.4	265.1	264.0	262.4	258.6	257.5	255.4
67.5°	223.0	223.3	224.5	225.3	224.5	223.3	223.0	223.6	221.2	219.1	218.7
70°	197.5	196.9	198.5	200.2	198.5	196.9	197.5	196.4	194.8	193.1	190.9
72.5°	170.6	171.8	171.3	172.4	171.3	171.8	170.6	170.8	169.3	167.1	165.0
75°	131.4	133.1	132.6	134.2	132.6	133.1	131.4	132.6	131.4	129.3	127.1
77.5°	95.0	95.2	95.0	95.9	95.0	95.2	95.0	95.9	94.7	95.4	92.9
80°	72.5	71.4	70.4	72.5	70.4	71.4	72.5	72.5	70.8	72.5	70.8
82.5°	50.4	51.0	50.0	50.0	50.0	51.0	50.4	51.7	51.0	51.7	50.1
85°	23.2	22.7	21.6	21.6	21.6	22.7	23.2	23.2	24.9	23.8	23.8
87.5°	9.9	9.5	9.5	9.0	9.5	9.5	9.9	9.8	9.8	10.8	10.8
90°	27.6	27.7	27.9	28.0	27.9	27.7	27.6	27.3	27.4	27.8	28.1
92.5°	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.6	26.6	26.5	26.4
95°	52.3	51.9	51.5	51.2	51.5	51.9	52.3	52.7	52.8	52.8	52.8
97.5°	88.8	88.8	88.7	88.7	88.7	88.8	88.8	88.9	88.9	88.9	88.9
100°	113.7	113.5	113.3	113.2	113.3	113.5	113.7	113.9	114.0	114.0	114.0
102.5°	141.5	141.2	141.0	140.9	141.0	141.2	141.5	141.6	141.6	141.5	141.4
105°	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.1	182.8	182.4
107.5°	225.8	224.9	224.1	223.3	224.1	224.9	225.8	226.7	227.0	226.9	226.7
110°	256.0	255.4	254.9	254.4	254.9	255.4	256.0	256.6	256.8	256.8	256.8



TEST NUMBER: P331568-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	285.3	284.9	284.5	284.1	284.5	284.9	285.3	285.7	286.1	286.6	287.0
115°	332.0	331.4	330.8	330.3	330.8	331.4	332.0	332.5	332.9	333.0	333.2
117.5°	376.1	375.5	375.0	374.4	375.0	375.5	376.1	376.6	377.1	377.6	378.0
120°	407.1	406.6	406.0	405.4	406.0	406.6	407.1	407.6	408.0	408.0	408.0
122.5°	437.1	436.7	436.3	435.9	436.3	436.7	437.1	437.5	437.9	438.3	438.8
125°	482.8	482.7	482.4	482.2	482.4	482.7	482.8	483.0	483.4	483.9	484.5
127.5°	526.3	525.7	525.1	524.6	525.1	525.7	526.3	526.8	527.5	528.2	528.8
130°	557.1	556.4	555.6	554.9	555.6	556.4	557.1	557.8	558.4	558.8	559.1
132.5°	585.8	585.1	584.6	584.0	584.6	585.1	585.8	586.4	587.0	587.8	588.6
135°	630.9	630.3	629.8	629.2	629.8	630.3	630.9	631.4	631.8	632.0	632.2
137.5°	672.4	671.6	670.9	670.2	670.9	671.6	672.4	673.1	673.6	673.8	673.8
140°	700.8	700.1	699.4	698.6	699.4	700.1	700.8	701.6	701.9	701.9	701.9
142.5°	726.6	725.9	725.1	724.4	725.1	725.9	726.6	727.3	727.6	727.5	727.3
145°	765.2	764.5	763.8	763.0	763.8	764.5	765.2	766.0	766.2	766.1	765.9
147.5°	799.6	798.9	798.3	797.5	798.3	798.9	799.6	800.3	800.5	800.1	799.6
150°	821.7	821.1	820.5	820.0	820.5	821.1	821.7	822.2	822.2	821.7	821.1
152.5°	843.3	842.5	841.8	841.1	841.8	842.5	843.3	843.9	843.9	843.3	842.5
155°	871.2	870.7	870.1	869.5	870.1	870.7	871.2	871.7	871.6	870.7	869.8
157.5°	896.7	895.8	894.9	894.0	894.9	895.8	896.7	897.5	897.3	896.1	894.9
160°	911.4	910.7	910.0	909.2	910.0	910.7	911.4	912.2	911.9	910.9	909.7
162.5°	925.0	924.1	923.2	922.4	923.2	924.1	925.0	925.9	925.8	924.5	923.2
165°	942.5	941.6	940.7	939.7	940.7	941.6	942.5	943.4	943.2	941.9	940.7
167.5°	956.8	955.9	954.9	954.0	954.9	955.9	956.8	957.7	957.6	956.3	955.0
170°	964.5	963.4	962.3	961.2	962.3	963.4	964.5	965.6	965.6	964.3	963.0
172.5°	970.5	969.4	968.2	967.2	968.2	969.4	970.5	971.6	971.4	970.2	968.9
175°	976.9	975.8	974.7	973.6	974.7	975.8	976.9	978.0	977.9	976.6	975.3
177.5°	979.2	978.4	977.5	976.6	977.5	978.4	979.2	980.1	980.1	979.2	978.4
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



TEST NUMBER: P331568-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1352.7	1357.5	1364.8	1372.6	1377.4	1386.4	1389.0	1393.3	1397.3	1406.4	1415.8
5°	1274.6	1282.1	1300.0	1309.7	1323.2	1339.0	1349.2	1360.1	1372.0	1392.5	1411.4
7.5°	1190.8	1203.5	1225.6	1243.8	1263.1	1285.6	1301.9	1323.2	1341.0	1370.0	1397.7
10°	1135.0	1152.8	1172.9	1194.5	1221.6	1245.4	1268.1	1295.1	1316.8	1351.4	1383.9
12.5°	1084.8	1087.5	1116.1	1140.0	1177.0	1206.4	1232.6	1267.5	1288.7	1329.8	1363.9
15°	997.0	1013.3	1039.3	1058.2	1102.0	1139.3	1176.2	1212.4	1236.7	1287.5	1332.4
17.5°	923.2	938.1	964.7	995.7	1027.2	1064.4	1112.0	1150.1	1183.2	1241.4	1294.5
20°	876.4	894.8	921.9	953.7	981.4	1021.9	1063.1	1106.9	1142.6	1208.0	1270.2
22.5°	836.6	851.1	872.9	904.4	934.6	971.8	1016.8	1064.5	1101.9	1172.6	1235.6
25°	780.6	792.6	806.6	832.6	866.7	907.3	942.4	994.9	1049.5	1115.5	1191.8
27.5°	730.3	738.7	751.1	774.0	800.4	838.3	877.3	927.2	982.1	1053.8	1134.2
30°	699.5	704.9	717.4	736.3	762.2	792.0	831.5	879.1	935.4	1007.9	1087.9
32.5°	672.7	677.7	685.7	703.8	726.4	751.8	787.3	834.9	888.6	959.9	1048.6
35°	632.4	636.2	643.3	657.9	670.3	695.2	725.0	768.2	818.5	886.7	978.7
37.5°	592.3	597.5	601.8	608.0	623.9	640.3	666.2	702.7	752.1	820.9	908.6
40°	565.9	570.2	576.7	579.4	592.4	607.0	628.1	661.6	711.4	774.1	859.7
42.5°	539.1	543.4	547.2	550.4	561.7	574.5	593.5	622.2	666.4	727.4	812.0
45°	502.6	503.1	506.9	512.8	518.3	527.5	541.0	565.9	600.0	657.3	734.1
47.5°	465.5	466.2	466.8	469.4	475.4	483.7	492.8	513.0	543.5	589.2	664.0
50°	440.9	439.9	440.9	443.0	446.9	453.9	464.1	478.7	503.7	546.4	615.1
52.5°	417.1	416.9	416.2	417.1	420.0	424.9	432.1	444.6	466.8	506.1	566.6
55°	380.8	378.1	378.7	376.5	381.4	382.5	387.9	398.2	417.7	444.7	501.5
57.5°	342.3	340.0	337.6	337.0	336.5	339.4	343.7	351.9	366.8	390.4	436.6
60°	317.6	314.9	311.6	310.5	310.5	312.2	314.3	320.2	334.4	355.5	393.3
62.5°	292.4	289.3	287.4	284.5	283.7	285.4	287.5	291.7	301.9	321.6	354.3
65°	253.7	250.0	247.2	246.7	245.6	244.0	245.1	249.4	257.5	273.2	299.1
67.5°	214.9	211.3	210.7	207.5	206.0	206.2	206.0	209.7	214.6	228.1	247.4
70°	189.3	186.6	185.6	182.9	181.8	180.7	179.6	182.9	187.8	199.1	215.9
72.5°	163.4	161.1	158.7	156.5	156.7	155.6	155.4	157.4	161.3	171.8	184.7
75°	126.0	126.6	123.9	121.2	120.7	119.5	119.5	121.2	122.8	130.9	141.2
77.5°	91.4	91.0	88.7	87.9	87.3	86.1	87.3	88.4	89.3	94.7	102.2
80°	69.8	69.8	67.1	67.1	66.5	64.9	66.5	65.5	67.6	73.1	78.4
82.5°	49.9	49.0	48.9	48.0	47.9	46.7	47.5	48.6	49.4	53.2	56.3
85°	24.4	24.4	23.8	23.2	23.8	23.2	23.8	24.4	24.9	26.5	29.2
87.5°	10.9	11.4	11.0	10.7	9.9	9.5	9.3	9.3	9.7	9.7	9.7
90°	28.5	28.9	24.9	20.8	16.8	12.7	9.6	7.4	5.2	3.0	0.8
92.5°	26.3	26.3	25.3	24.4	23.4	22.4	21.2	19.6	17.9	16.3	14.7
95°	52.8	52.8	52.5	52.1	51.8	51.4	50.3	48.4	46.6	44.8	43.0
97.5°	88.9	88.9	88.1	87.5	86.7	86.1	84.9	83.3	81.7	80.1	78.4
100°	114.0	114.0	113.4	112.8	112.3	111.8	110.7	109.3	107.8	106.3	104.8
102.5°	141.2	141.0	140.3	139.7	138.9	138.3	137.3	136.2	134.9	133.8	132.6
105°	182.1	181.6	181.3	180.9	180.6	180.2	179.8	179.2	178.6	178.1	177.6
107.5°	226.6	226.4	226.4	226.4	226.4	226.4	226.0	225.2	224.4	223.6	222.8
110°	256.8	256.8	256.8	256.8	256.8	256.8	256.2	255.2	254.0	253.0	251.8



TEST NUMBER: P331568-930

CATALOG NUMBER: S122DIW-S865D970U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	287.4	287.9	288.0	288.1	288.3	288.5	288.0	286.9	285.8	284.7	283.6
115°	333.5	333.6	333.9	334.4	334.7	335.1	334.7	333.6	332.5	331.4	330.3
117.5°	378.5	378.9	379.9	380.9	382.0	382.9	382.8	381.3	379.8	378.4	376.9
120°	408.0	408.0	409.4	410.9	412.4	413.8	413.8	412.4	410.9	409.4	408.0
122.5°	439.2	439.6	440.7	441.7	442.7	443.8	443.4	441.6	439.9	438.1	436.3
125°	485.0	485.6	486.1	486.7	487.2	487.8	487.2	485.6	483.9	482.2	480.6
127.5°	529.5	530.2	530.8	531.5	532.1	532.8	532.1	530.0	527.9	525.8	523.7
130°	559.5	559.9	560.3	560.6	561.0	561.3	560.4	558.0	555.5	553.2	550.8
132.5°	589.5	590.3	590.2	590.1	590.0	590.0	589.0	587.0	585.1	583.1	581.1
135°	632.3	632.5	632.2	631.8	631.4	631.0	629.9	627.9	625.8	623.9	621.8
137.5°	674.0	674.2	673.7	673.2	672.7	672.3	671.2	669.5	667.9	666.3	664.6
140°	701.9	701.9	701.0	700.1	699.2	698.2	696.9	695.3	693.7	692.0	690.3
142.5°	727.2	727.0	726.4	725.8	725.1	724.6	723.4	721.7	720.1	718.4	716.8
145°	765.6	765.5	764.4	763.3	762.2	761.1	759.9	758.6	757.3	756.0	754.7
147.5°	799.2	798.8	798.1	797.4	796.6	795.9	794.8	793.2	791.7	790.2	788.6
150°	820.5	820.0	819.3	818.6	817.8	817.1	816.1	815.1	813.9	812.9	811.7
152.5°	841.8	841.1	840.2	839.4	838.5	837.6	836.7	835.5	834.5	833.3	832.3
155°	868.8	867.9	867.3	866.8	866.3	865.7	865.1	864.6	864.1	863.5	862.9
157.5°	893.6	892.3	892.0	891.7	891.4	891.0	890.6	890.3	889.9	889.6	889.2
160°	908.7	907.5	907.3	907.2	907.0	906.8	906.5	906.1	905.8	905.4	905.1
162.5°	922.0	920.7	920.6	920.4	920.2	920.0	919.9	919.8	919.7	919.7	919.6
165°	939.4	938.1	938.1	938.1	938.1	938.1	938.2	938.3	938.6	938.7	938.9
167.5°	953.7	952.4	952.5	952.5	952.6	952.6	952.9	953.4	954.0	954.6	955.1
170°	961.6	960.4	960.6	960.7	960.9	961.2	961.5	962.1	962.6	963.1	963.7
172.5°	967.6	966.3	966.5	966.7	966.9	967.0	967.4	968.0	968.5	969.1	969.6
175°	974.0	972.7	973.1	973.5	973.9	974.2	974.7	975.3	975.8	976.3	976.9
177.5°	977.5	976.6	976.9	977.1	977.5	977.7	978.1	978.5	979.0	979.4	979.9
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



TEST NUMBER: P331568-930

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1415.0	1417.2	1424.1	1431.0	1438.8	1441.0	1444.5	1441.4	1440.6	1448.8	1454.8
5°	1419.0	1428.7	1447.7	1465.0	1479.6	1489.9	1500.7	1505.0	1513.1	1524.5	1538.6
7.5°	1414.5	1433.4	1463.1	1488.4	1515.9	1535.6	1551.1	1564.3	1580.4	1601.9	1625.4
10°	1409.2	1434.7	1471.0	1501.8	1535.3	1560.7	1581.8	1602.4	1626.2	1656.0	1686.8
12.5°	1399.8	1430.0	1475.3	1511.7	1554.8	1579.8	1608.3	1652.6	1678.1	1719.6	1763.0
15°	1380.6	1414.1	1477.4	1522.3	1571.0	1618.6	1671.1	1713.4	1755.5	1779.9	1841.0
17.5°	1352.2	1401.4	1471.5	1523.9	1585.8	1660.8	1719.7	1767.5	1816.2	1855.7	1886.4
20°	1329.2	1382.7	1462.8	1525.6	1599.1	1679.8	1747.4	1796.1	1838.3	1871.3	1890.2
22.5°	1300.2	1367.6	1445.5	1519.1	1613.0	1692.7	1763.8	1802.1	1837.4	1853.5	1860.8
25°	1254.6	1335.7	1423.9	1513.7	1619.8	1704.1	1769.0	1792.3	1802.5	1786.9	1760.9
27.5°	1205.3	1295.8	1398.9	1503.5	1615.6	1696.7	1743.3	1739.6	1722.2	1671.4	1630.8
30°	1168.6	1268.1	1379.0	1493.1	1605.7	1684.7	1711.7	1684.7	1645.1	1588.4	1530.5
32.5°	1130.0	1233.1	1357.8	1478.4	1587.5	1656.9	1662.8	1616.2	1555.1	1490.5	1418.4
35°	1071.7	1183.2	1317.8	1445.5	1548.8	1592.7	1566.7	1484.5	1412.0	1323.8	1225.3
37.5°	1005.8	1128.9	1264.0	1397.3	1490.9	1502.4	1437.9	1351.4	1249.1	1145.5	1029.6
40°	956.5	1086.9	1225.9	1360.6	1443.3	1431.4	1349.2	1254.0	1132.3	1005.7	898.1
42.5°	912.3	1042.7	1184.3	1316.5	1382.7	1350.1	1254.0	1137.2	1006.3	887.1	788.6
45°	835.8	970.0	1115.0	1242.7	1280.5	1221.6	1094.5	964.6	835.8	736.3	658.4
47.5°	761.6	894.2	1037.8	1150.1	1163.4	1084.1	945.2	811.6	700.9	619.9	564.9
50°	707.1	840.2	982.4	1082.6	1078.2	982.4	839.6	712.5	620.0	554.5	517.7
52.5°	658.2	783.9	920.6	1011.5	988.6	884.2	747.9	635.0	559.0	507.8	474.4
55°	582.1	698.4	828.3	901.3	859.1	743.3	628.1	537.2	480.9	442.5	416.5
57.5°	506.5	615.6	726.8	771.8	725.1	618.2	522.2	456.2	413.9	385.5	368.6
60°	459.8	555.1	654.0	693.0	637.3	542.1	466.4	407.4	373.2	350.0	334.8
62.5°	413.1	498.4	591.7	612.9	562.0	481.5	414.4	365.4	337.4	316.7	302.4
65°	349.5	419.2	490.2	504.2	457.1	394.9	341.9	310.0	285.1	269.9	258.6
67.5°	286.6	342.7	392.9	404.2	363.0	319.8	281.5	253.7	236.8	224.3	214.7
70°	249.4	293.8	334.8	344.1	311.0	272.6	243.4	221.3	206.1	195.3	186.1
72.5°	210.0	247.0	281.2	287.4	260.4	231.1	207.1	189.6	176.3	169.3	160.5
75°	160.7	182.3	208.8	210.4	192.6	174.7	156.4	145.0	137.9	129.3	125.0
77.5°	113.4	130.4	145.5	148.5	137.9	125.7	115.4	106.5	100.5	96.5	92.5
80°	86.6	100.1	106.6	110.4	102.8	94.2	88.2	82.3	78.4	75.7	73.1
82.5°	61.9	70.2	76.3	79.2	75.1	69.9	63.9	60.6	57.6	55.4	54.5
85°	31.4	35.1	39.0	40.0	39.0	36.8	33.5	33.5	31.9	31.4	31.4
87.5°	11.4	13.6	14.0	15.8	15.6	16.3	17.1	17.5	17.9	17.4	16.9
90°	3.0	5.2	7.4	9.6	12.7	16.8	20.8	24.9	28.9	28.5	28.1
92.5°	16.3	17.9	19.6	21.2	22.4	23.4	24.4	25.3	26.3	26.3	26.4
95°	44.8	46.6	48.4	50.3	51.4	51.8	52.1	52.5	52.8	52.8	52.8
97.5°	80.1	81.7	83.3	84.9	86.1	86.7	87.5	88.1	88.9	88.9	88.9
100°	106.3	107.8	109.3	110.7	111.8	112.3	112.8	113.4	114.0	114.0	114.0
102.5°	133.8	134.9	136.2	137.3	138.3	138.9	139.7	140.3	141.0	141.2	141.4
105°	178.1	178.6	179.2	179.8	180.2	180.6	180.9	181.3	181.6	182.1	182.4
107.5°	223.6	224.4	225.2	226.0	226.4	226.4	226.4	226.4	226.4	226.6	226.7
110°	253.0	254.0	255.2	256.2	256.8	256.8	256.8	256.8	256.8	256.8	256.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	284.7	285.8	286.9	288.0	288.5	288.3	288.1	288.0	287.9	287.4	287.0
115°	331.4	332.5	333.6	334.7	335.1	334.7	334.4	333.9	333.6	333.5	333.2
117.5°	378.4	379.8	381.3	382.8	382.9	382.0	380.9	379.9	378.9	378.5	378.0
120°	409.4	410.9	412.4	413.8	413.8	412.4	410.9	409.4	408.0	408.0	408.0
122.5°	438.1	439.9	441.6	443.4	443.8	442.7	441.7	440.7	439.6	439.2	438.8
125°	482.2	483.9	485.6	487.2	487.8	487.2	486.7	486.1	485.6	485.0	484.5
127.5°	525.8	527.9	530.0	532.1	532.8	532.1	531.5	530.8	530.2	529.5	528.8
130°	553.2	555.5	558.0	560.4	561.3	561.0	560.6	560.3	559.9	559.5	559.1
132.5°	583.1	585.1	587.0	589.0	590.0	590.0	590.1	590.2	590.3	589.5	588.6
135°	623.9	625.8	627.9	629.9	631.0	631.4	631.8	632.2	632.5	632.3	632.2
137.5°	666.3	667.9	669.5	671.2	672.3	672.7	673.2	673.7	674.2	674.0	673.8
140°	692.0	693.7	695.3	696.9	698.2	699.2	700.1	701.0	701.9	701.9	701.9
142.5°	718.4	720.1	721.7	723.4	724.6	725.1	725.8	726.4	727.0	727.2	727.3
145°	756.0	757.3	758.6	759.9	761.1	762.2	763.3	764.4	765.5	765.6	765.9
147.5°	790.2	791.7	793.2	794.8	795.9	796.6	797.4	798.1	798.8	799.2	799.6
150°	812.9	813.9	815.1	816.1	817.1	817.8	818.6	819.3	820.0	820.5	821.1
152.5°	833.3	834.5	835.5	836.7	837.6	838.5	839.4	840.2	841.1	841.8	842.5
155°	863.5	864.1	864.6	865.1	865.7	866.3	866.8	867.3	867.9	868.8	869.8
157.5°	889.6	889.9	890.3	890.6	891.0	891.4	891.7	892.0	892.3	893.6	894.9
160°	905.4	905.8	906.1	906.5	906.8	907.0	907.2	907.3	907.5	908.7	909.7
162.5°	919.7	919.7	919.8	919.9	920.0	920.2	920.4	920.6	920.7	922.0	923.2
165°	938.7	938.6	938.3	938.2	938.1	938.1	938.1	938.1	938.1	939.4	940.7
167.5°	954.6	954.0	953.4	952.9	952.6	952.6	952.5	952.5	952.4	953.7	955.0
170°	963.1	962.6	962.1	961.5	961.2	960.9	960.7	960.6	960.4	961.6	963.0
172.5°	969.1	968.5	968.0	967.4	967.0	966.9	966.7	966.5	966.3	967.6	968.9
175°	976.3	975.8	975.3	974.7	974.2	973.9	973.5	973.1	972.7	974.0	975.3
177.5°	979.4	979.0	978.5	978.1	977.7	977.5	977.1	976.9	976.6	977.5	978.4
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1460.0	1466.1	1466.1	1467.0	1473.9	1473.0	1472.6
5°	1553.7	1562.9	1564.0	1573.8	1580.2	1578.1	1572.1
7.5°	1642.1	1659.2	1672.2	1679.4	1688.0	1693.3	1690.9
10°	1712.2	1737.1	1752.2	1762.5	1775.0	1784.2	1780.9
12.5°	1775.9	1805.5	1826.3	1843.9	1845.5	1857.3	1849.3
15°	1875.1	1906.4	1909.7	1922.6	1933.0	1931.9	1932.4
17.5°	1907.9	1917.9	1919.9	1920.3	1920.4	1916.6	1908.4
20°	1896.1	1892.4	1883.2	1876.2	1863.7	1862.1	1851.3
22.5°	1840.8	1828.8	1805.7	1790.5	1771.1	1766.0	1763.0
25°	1731.7	1705.2	1668.4	1633.2	1623.5	1604.6	1610.0
27.5°	1582.1	1540.8	1500.9	1472.3	1446.5	1418.1	1426.3
30°	1476.9	1430.4	1374.1	1330.8	1303.3	1276.2	1271.3
32.5°	1351.4	1283.2	1220.5	1182.3	1140.1	1123.0	1104.2
35°	1135.0	1068.4	1006.2	952.7	921.9	898.1	876.4
37.5°	940.4	863.7	813.5	770.1	747.9	734.3	737.7
40°	819.6	752.5	715.8	682.7	662.2	652.4	654.6
42.5°	721.8	671.6	641.3	618.6	604.1	598.8	597.5
45°	610.7	582.6	557.7	544.8	537.8	531.8	528.0
47.5°	535.0	512.1	498.1	490.3	484.2	478.1	478.0
50°	489.6	474.4	464.7	456.6	451.8	447.4	451.2
52.5°	454.9	441.2	431.4	424.1	422.3	418.4	418.3
55°	403.6	392.7	385.7	379.2	376.0	373.8	371.1
57.5°	356.9	346.6	340.1	336.0	329.8	327.6	326.8
60°	323.5	315.4	308.9	303.5	300.8	296.4	296.4
62.5°	292.8	284.7	278.6	274.5	270.0	268.3	268.8
65°	248.3	241.8	235.9	231.5	230.5	227.2	228.3
67.5°	207.4	203.1	196.8	194.4	192.4	190.6	189.3
70°	180.2	175.9	172.6	169.3	167.7	167.7	167.7
72.5°	157.2	152.1	150.1	145.9	146.9	145.2	143.5
75°	121.7	118.5	116.8	115.2	112.5	112.5	112.5
77.5°	89.6	88.6	86.7	85.0	84.3	83.7	84.0
80°	69.2	68.7	67.6	67.6	66.5	66.0	64.9
82.5°	53.2	51.9	51.2	50.7	50.5	50.4	50.2
85°	30.3	29.2	29.2	29.8	28.7	28.7	29.2
87.5°	17.3	17.2	16.7	16.8	17.2	16.8	16.9
90°	27.8	27.4	27.3	27.6	27.7	27.9	28.0
92.5°	26.5	26.6	26.6	26.7	26.7	26.7	26.7
95°	52.8	52.8	52.7	52.3	51.9	51.5	51.2
97.5°	88.9	88.9	88.9	88.8	88.8	88.7	88.7
100°	114.0	114.0	113.9	113.7	113.5	113.3	113.2
102.5°	141.5	141.6	141.6	141.5	141.2	141.0	140.9
105°	182.8	183.1	183.4	183.4	183.4	183.4	183.4
107.5°	226.9	227.0	226.7	225.8	224.9	224.1	223.3
110°	256.8	256.8	256.6	256.0	255.4	254.9	254.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	286.6	286.1	285.7	285.3	284.9	284.5	284.1
115°	333.0	332.9	332.5	332.0	331.4	330.8	330.3
117.5°	377.6	377.1	376.6	376.1	375.5	375.0	374.4
120°	408.0	408.0	407.6	407.1	406.6	406.0	405.4
122.5°	438.3	437.9	437.5	437.1	436.7	436.3	435.9
125°	483.9	483.4	483.0	482.8	482.7	482.4	482.2
127.5°	528.2	527.5	526.8	526.3	525.7	525.1	524.6
130°	558.8	558.4	557.8	557.1	556.4	555.6	554.9
132.5°	587.8	587.0	586.4	585.8	585.1	584.6	584.0
135°	632.0	631.8	631.4	630.9	630.3	629.8	629.2
137.5°	673.8	673.6	673.1	672.4	671.6	670.9	670.2
140°	701.9	701.9	701.6	700.8	700.1	699.4	698.6
142.5°	727.5	727.6	727.3	726.6	725.9	725.1	724.4
145°	766.1	766.2	766.0	765.2	764.5	763.8	763.0
147.5°	800.1	800.5	800.3	799.6	798.9	798.3	797.5
150°	821.7	822.2	822.2	821.7	821.1	820.5	820.0
152.5°	843.3	843.9	843.9	843.3	842.5	841.8	841.1
155°	870.7	871.6	871.7	871.2	870.7	870.1	869.5
157.5°	896.1	897.3	897.5	896.7	895.8	894.9	894.0
160°	910.9	911.9	912.2	911.4	910.7	910.0	909.2
162.5°	924.5	925.8	925.9	925.0	924.1	923.2	922.4
165°	941.9	943.2	943.4	942.5	941.6	940.7	939.7
167.5°	956.3	957.6	957.7	956.8	955.9	954.9	954.0
170°	964.3	965.6	965.6	964.5	963.4	962.3	961.2
172.5°	970.2	971.4	971.6	970.5	969.4	968.2	967.2
175°	976.6	977.9	978.0	976.9	975.8	974.7	973.6
177.5°	979.2	980.1	980.1	979.2	978.4	977.5	976.6
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5

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