

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: P331561-930

Luminaire Tested: **S122DIW-S865D710U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331561-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S865D710U930-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5419.0 lumens
Efficiency: N/A
Efficacy: 101.1 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

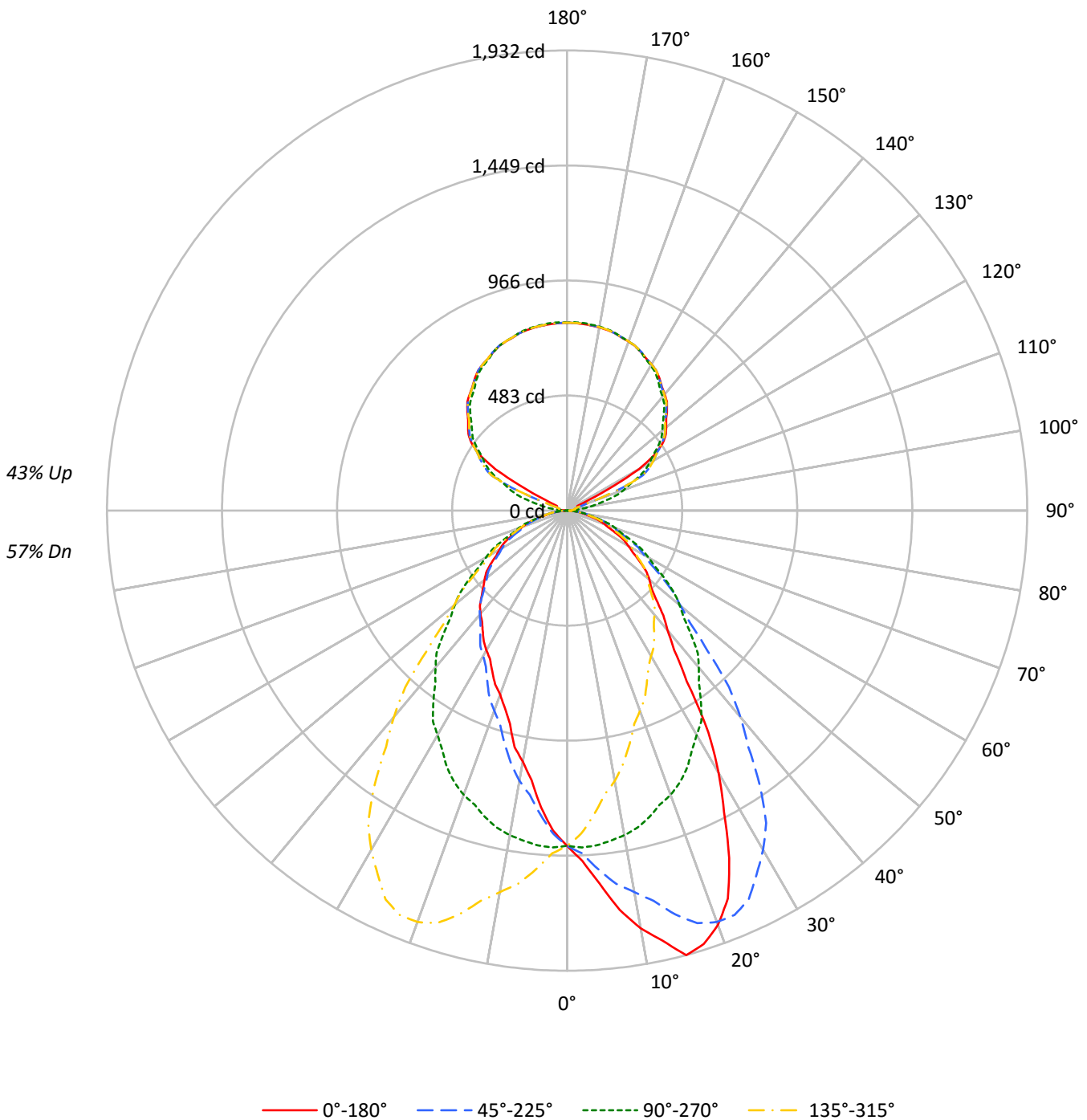
Input Watts (W): 53.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	50	30	10	0														
RCR																																						
0	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57																				
1	100	96	92	89	93	89	86	83	77	75	73	67	65	63	56	55	54	49																				
2	91	84	78	73	85	79	74	69	69	65	61	59	56	54	50	48	46	42																				
3	84	75	67	62	78	70	64	59	61	56	52	53	49	46	45	42	40	36																				
4	77	66	59	53	72	62	55	50	55	49	45	47	43	40	41	38	35	32																				
5	71	60	52	46	66	56	49	44	49	44	39	43	38	35	37	34	31	28																				
6	66	54	46	40	61	51	43	38	45	39	35	39	34	31	34	30	28	25																				
7	61	49	41	35	57	46	39	34	41	35	31	36	31	28	31	27	25	22																				
8	57	44	37	32	53	42	35	30	37	32	28	33	28	25	29	25	22	20																				
9	53	41	33	28	49	38	32	27	34	29	25	30	26	23	26	23	20	18																				
10	49	37	30	26	46	35	29	25	32	26	23	28	24	21	25	21	19	17																				

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	2.5
10°-20°	389.7	7.2
20°-30°	565.6	10.4
30°-40°	596.9	11.0
40°-50°	528.5	9.8
50°-60°	421.7	7.8
60°-70°	286.7	5.3
70°-80°	147.0	2.7
80°-90°	37.4	0.7
90°-100°	26.3	0.5
100°-110°	96.5	1.8
110°-120°	257.9	4.8
120°-130°	425.7	7.9
130°-140°	452.8	8.4
140°-150°	420.8	7.8
150°-160°	338.4	6.2
160°-170°	218.0	4.0
170°-180°	75.1	1.4
0°-30°	1089.4	20.1
0°-40°	1686.3	31.1
0°-60°	2636.5	48.7
0°-90°	3107.5	57.3
90°-120°	380.7	7.0
90°-150°	1680.1	31.0
90°-180°	2312.0	42.7
0°-180°	5419.0	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	32
90°	15	1	15	1	15	8
95°	24	37	24	37	24	23
105°	43	174	43	174	43	45
115°	47	328	47	328	47	117
125°	488	464	488	464	488	422
135°	593	574	593	574	593	457
145°	676	666	676	666	676	423
155°	734	733	734	733	734	339
165°	771	773	771	773	771	218
175°	786	790	786	790	786	75
180°	789	789	789	789	789	



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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°	14.3	14.3	14.7	14.2	14.1	14.5	14.3	13.8	14.1	14.4	14.6
90°	15.4	15.2	14.9	14.7	14.4	13.9	13.3	12.7	12.1	11.4	10.4
92.5°	15.4	15.2	15.1	14.9	14.8	14.6	14.3	13.9	13.5	13.2	12.7
95°	24.5	24.7	24.8	24.9	25.0	24.8	24.1	23.6	22.9	22.3	21.4
97.5°	32.8	32.6	32.4	32.3	32.1	31.8	31.3	30.8	30.3	29.8	27.7
100°	38.2	38.0	37.7	37.5	37.3	36.6	35.5	34.6	33.5	32.5	30.4
102.5°	41.0	40.6	40.3	39.9	39.5	38.7	37.4	36.1	34.7	33.4	31.4
105°	43.4	42.9	42.4	41.8	41.3	40.4	39.0	37.6	36.2	34.8	32.5
107.5°	44.6	44.1	43.6	43.1	42.6	43.0	44.5	45.9	47.3	48.8	50.3
110°	45.1	44.6	44.1	43.5	43.0	49.2	61.8	74.5	87.2	99.9	136.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	45.6	45.2	44.8	44.4	43.9	66.9	113.2	159.4	205.7	251.9	261.0
115°	46.8	55.9	65.1	74.2	83.3	117.2	175.9	234.7	293.4	352.1	348.9
117.5°	191.1	221.1	251.1	281.1	311.1	333.2	347.4	361.7	375.9	390.0	387.8
120°	348.1	365.3	382.4	399.5	416.6	424.4	422.9	421.4	419.9	418.3	416.0
122.5°	434.5	437.8	441.1	444.4	447.8	449.0	448.0	447.1	446.2	445.3	442.8
125°	488.0	487.6	487.2	486.8	486.5	485.8	484.9	484.0	483.1	482.2	479.9
127.5°	521.8	521.7	521.6	521.5	521.5	520.8	519.5	518.2	516.9	515.6	513.8
130°	542.8	542.9	543.1	543.2	543.3	542.7	541.3	539.9	538.5	537.1	535.7
132.5°	563.4	563.5	563.6	563.7	563.9	563.3	562.1	560.9	559.7	558.6	557.2
135°	593.0	593.3	593.5	593.8	594.0	593.5	592.2	591.0	589.7	588.5	587.3
137.5°	620.0	620.5	620.9	621.3	621.8	621.4	620.1	618.9	617.7	616.4	615.1
140°	637.0	637.6	638.2	638.9	639.5	639.3	638.1	637.0	635.9	634.7	633.2
142.5°	653.4	654.0	654.7	655.3	655.9	655.7	654.7	653.6	652.6	651.6	650.0
145°	676.4	676.9	677.6	678.2	678.9	678.7	677.8	676.9	676.1	675.2	673.0
147.5°	696.5	697.1	697.7	698.1	698.7	698.6	698.0	697.3	696.7	695.9	693.8
150°	708.9	709.5	710.1	710.8	711.4	711.3	710.6	709.8	709.1	708.3	706.3
152.5°	719.3	720.2	721.1	721.9	722.8	722.8	722.0	721.2	720.5	719.7	717.8
155°	734.0	735.0	736.1	737.0	738.0	738.2	737.4	736.6	735.9	735.2	733.6
157.5°	747.3	748.4	749.3	750.3	751.3	751.4	750.5	749.7	748.8	747.9	746.8
160°	755.1	756.0	756.8	757.7	758.6	758.7	758.0	757.2	756.4	755.7	754.9
162.5°	761.5	762.5	763.7	764.8	765.9	766.0	765.1	764.3	763.4	762.5	761.9
165°	771.1	772.0	772.9	773.7	774.6	774.6	773.7	772.9	772.0	771.1	770.7
167.5°	777.1	778.3	779.4	780.6	781.7	781.8	781.0	780.1	779.2	778.3	778.0
170°	780.8	782.0	783.1	784.2	785.4	785.5	784.6	783.7	782.9	782.0	781.7
172.5°	783.5	784.6	785.8	786.9	788.1	788.2	787.3	786.4	785.5	784.6	784.4
175°	785.9	787.2	788.5	789.7	791.0	791.2	790.3	789.5	788.6	787.7	787.4
177.5°	787.4	788.3	789.2	790.2	791.1	791.2	790.4	789.8	789.0	788.3	788.2
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



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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°	14.8	14.7	14.4	15.1	13.5	13.2	11.3	9.6	9.5	9.3	8.7
90°	9.4	8.4	7.3	6.1	4.7	3.3	2.0	0.6	2.0	3.3	4.7
92.5°	12.2	11.7	11.3	11.0	11.2	11.3	11.4	11.5	11.4	11.3	11.2
95°	20.5	19.6	18.7	20.4	24.5	28.7	32.9	37.1	32.9	28.7	24.5
97.5°	25.7	23.6	21.6	26.4	38.2	50.1	61.8	73.6	61.8	50.1	38.2
100°	28.2	26.1	23.9	31.6	48.9	66.3	83.6	101.0	83.6	66.3	48.9
102.5°	69.5	87.6	105.6	116.4	120.1	123.8	127.5	131.2	127.5	123.8	120.1
105°	104.0	138.7	173.3	188.7	184.9	181.2	177.3	173.5	177.3	181.2	184.9
107.5°	131.8	173.3	214.8	234.1	231.0	228.0	224.9	221.8	224.9	228.0	231.0
110°	173.2	209.9	246.5	263.5	260.8	258.2	255.5	252.8	255.5	258.2	260.8



TEST NUMBER: P331561-930

CATALOG NUMBER: S122DIW-S865D710U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	270.0	279.1	288.1	291.5	289.1	286.8	284.5	282.1	284.5	286.8	289.1
115°	345.8	342.7	339.5	336.8	334.7	332.5	330.4	328.2	330.4	332.5	334.7
117.5°	385.7	383.5	381.3	379.0	376.6	374.2	371.8	369.4	371.8	374.2	376.6
120°	413.8	411.5	409.2	407.2	405.2	403.3	401.5	399.5	401.5	403.3	405.2
122.5°	440.3	437.8	435.4	433.1	431.1	429.1	427.1	425.1	427.1	429.1	431.1
125°	477.4	475.1	472.6	470.6	469.0	467.3	465.7	464.0	465.7	467.3	469.0
127.5°	512.0	510.2	508.4	506.6	504.8	503.0	501.1	499.3	501.1	503.0	504.8
130°	534.3	532.9	531.5	529.8	527.7	525.7	523.7	521.6	523.7	525.7	527.7
132.5°	555.7	554.3	552.9	551.4	549.7	548.0	546.3	544.5	546.3	548.0	549.7
135°	586.2	585.1	583.9	582.3	580.2	578.2	576.2	574.2	576.2	578.2	580.2
137.5°	613.8	612.5	611.2	609.8	608.5	607.1	605.6	604.2	605.6	607.1	608.5
140°	631.9	630.5	629.1	627.9	626.9	625.8	624.8	623.9	624.8	625.8	626.9
142.5°	648.4	646.8	645.1	643.9	643.0	642.1	641.2	640.3	641.2	642.1	643.0
145°	670.9	668.7	666.6	665.5	665.7	665.9	665.9	666.1	665.9	665.9	665.7
147.5°	691.7	689.6	687.5	686.6	687.1	687.6	688.1	688.5	688.1	687.6	687.1
150°	704.3	702.2	700.2	699.6	700.5	701.4	702.3	703.2	702.3	701.4	700.5
152.5°	715.8	714.0	712.0	711.5	712.5	713.5	714.5	715.5	714.5	713.5	712.5
155°	732.1	730.6	729.0	728.9	730.0	731.2	732.3	733.4	732.3	731.2	730.0
157.5°	745.8	744.7	743.6	743.6	744.5	745.5	746.5	747.5	746.5	745.5	744.5
160°	754.2	753.4	752.6	752.6	753.4	754.2	754.9	755.7	754.9	754.2	753.4
162.5°	761.2	760.5	759.9	759.9	760.7	761.5	762.2	763.0	762.2	761.5	760.7
165°	770.3	770.0	769.6	769.7	770.5	771.3	772.0	772.8	772.0	771.3	770.5
167.5°	777.6	777.2	776.9	777.1	777.8	778.6	779.3	780.1	779.3	778.6	777.8
170°	781.5	781.1	780.9	781.1	782.0	782.7	783.4	784.2	783.4	782.7	782.0
172.5°	784.2	783.9	783.7	783.9	784.6	785.5	786.2	786.9	786.2	785.5	784.6
175°	787.2	786.8	786.6	786.9	787.8	788.7	789.6	790.5	789.6	788.7	787.8
177.5°	788.1	788.0	787.9	788.2	789.0	789.6	790.4	791.1	790.4	789.6	789.0
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



TEST NUMBER: P331561-930

CATALOG NUMBER: S122DIW-S865D710U930-4F0-1E-UDD-A

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°	8.6	8.4	8.2	8.4	8.2	7.9	7.6	7.7	7.8	7.1	7.2
90°	6.1	7.3	8.4	9.4	10.4	11.4	12.1	12.7	13.3	13.9	14.4
92.5°	11.0	11.3	11.7	12.2	12.7	13.2	13.5	13.9	14.3	14.6	14.8
95°	20.4	18.7	19.6	20.5	21.4	22.3	22.9	23.6	24.1	24.8	25.0
97.5°	26.4	21.6	23.6	25.7	27.7	29.8	30.3	30.8	31.3	31.8	32.1
100°	31.6	23.9	26.1	28.2	30.4	32.5	33.5	34.6	35.5	36.6	37.3
102.5°	116.4	105.6	87.6	69.5	51.4	33.4	34.7	36.1	37.4	38.7	39.5
105°	188.7	173.3	138.7	104.0	69.5	34.8	36.2	37.6	39.0	40.4	41.3
107.5°	234.1	214.8	173.3	131.8	90.3	48.8	47.3	45.9	44.5	43.0	42.6
110°	263.5	246.5	209.9	173.2	136.6	99.9	87.2	74.5	61.8	49.2	43.0



TEST NUMBER: P331561-930

CATALOG NUMBER: S122DIW-S865D710U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	291.5	288.1	279.1	270.0	261.0	251.9	205.7	159.4	113.2	66.9	43.9
115°	336.8	339.5	342.7	345.8	348.9	352.1	293.4	234.7	175.9	117.2	83.3
117.5°	379.0	381.3	383.5	385.7	387.8	390.0	375.9	361.7	347.4	333.2	311.1
120°	407.2	409.2	411.5	413.8	416.0	418.3	419.9	421.4	422.9	424.4	416.6
122.5°	433.1	435.4	437.8	440.3	442.8	445.3	446.2	447.1	448.0	449.0	447.8
125°	470.6	472.6	475.1	477.4	479.9	482.2	483.1	484.0	484.9	485.8	486.5
127.5°	506.6	508.4	510.2	512.0	513.8	515.6	516.9	518.2	519.5	520.8	521.5
130°	529.8	531.5	532.9	534.3	535.7	537.1	538.5	539.9	541.3	542.7	543.3
132.5°	551.4	552.9	554.3	555.7	557.2	558.6	559.7	560.9	562.1	563.3	563.9
135°	582.3	583.9	585.1	586.2	587.3	588.5	589.7	591.0	592.2	593.5	594.0
137.5°	609.8	611.2	612.5	613.8	615.1	616.4	617.7	618.9	620.1	621.4	621.8
140°	627.9	629.1	630.5	631.9	633.2	634.7	635.9	637.0	638.1	639.3	639.5
142.5°	643.9	645.1	646.8	648.4	650.0	651.6	652.6	653.6	654.7	655.7	655.9
145°	665.5	666.6	668.7	670.9	673.0	675.2	676.1	676.9	677.8	678.7	678.9
147.5°	686.6	687.5	689.6	691.7	693.8	695.9	696.7	697.3	698.0	698.6	698.7
150°	699.6	700.2	702.2	704.3	706.3	708.3	709.1	709.8	710.6	711.3	711.4
152.5°	711.5	712.0	714.0	715.8	717.8	719.7	720.5	721.2	722.0	722.8	722.8
155°	728.9	729.0	730.6	732.1	733.6	735.2	735.9	736.6	737.4	738.2	738.0
157.5°	743.6	743.6	744.7	745.8	746.8	747.9	748.8	749.7	750.5	751.4	751.3
160°	752.6	752.6	753.4	754.2	754.9	755.7	756.4	757.2	758.0	758.7	758.6
162.5°	759.9	759.9	760.5	761.2	761.9	762.5	763.4	764.3	765.1	766.0	765.9
165°	769.7	769.6	770.0	770.3	770.7	771.1	772.0	772.9	773.7	774.6	774.6
167.5°	777.1	776.9	777.2	777.6	778.0	778.3	779.2	780.1	781.0	781.8	781.7
170°	781.1	780.9	781.1	781.5	781.7	782.0	782.9	783.7	784.6	785.5	785.4
172.5°	783.9	783.7	783.9	784.2	784.4	784.6	785.5	786.4	787.3	788.2	788.1
175°	786.9	786.6	786.8	787.2	787.4	787.7	788.6	789.5	790.3	791.2	791.0
177.5°	788.2	787.9	788.0	788.1	788.2	788.3	789.0	789.8	790.4	791.2	791.1
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



TEST NUMBER: P331561-930

CATALOG NUMBER: S122DIW-S865D710U930-4F0-1E-UDD-A

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°	7.3	6.8	6.9	6.5	6.9	6.8	7.3	7.2	7.1	7.8	7.7
90°	14.7	14.9	15.2	15.4	15.2	14.9	14.7	14.4	13.9	13.3	12.7
92.5°	14.9	15.1	15.2	15.4	15.2	15.1	14.9	14.8	14.6	14.3	13.9
95°	24.9	24.8	24.7	24.5	24.7	24.8	24.9	25.0	24.8	24.1	23.6
97.5°	32.3	32.4	32.6	32.8	32.6	32.4	32.3	32.1	31.8	31.3	30.8
100°	37.5	37.7	38.0	38.2	38.0	37.7	37.5	37.3	36.6	35.5	34.6
102.5°	39.9	40.3	40.6	41.0	40.6	40.3	39.9	39.5	38.7	37.4	36.1
105°	41.8	42.4	42.9	43.4	42.9	42.4	41.8	41.3	40.4	39.0	37.6
107.5°	43.1	43.6	44.1	44.6	44.1	43.6	43.1	42.6	43.0	44.5	45.9
110°	43.5	44.1	44.6	45.1	44.6	44.1	43.5	43.0	49.2	61.8	74.5



TEST NUMBER: P331561-930

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	44.4	44.8	45.2	45.6	45.2	44.8	44.4	43.9	66.9	113.2	159.4
115°	74.2	65.1	55.9	46.8	55.9	65.1	74.2	83.3	117.2	175.9	234.7
117.5°	281.1	251.1	221.1	191.1	221.1	251.1	281.1	311.1	333.2	347.4	361.7
120°	399.5	382.4	365.3	348.1	365.3	382.4	399.5	416.6	424.4	422.9	421.4
122.5°	444.4	441.1	437.8	434.5	437.8	441.1	444.4	447.8	449.0	448.0	447.1
125°	486.8	487.2	487.6	488.0	487.6	487.2	486.8	486.5	485.8	484.9	484.0
127.5°	521.5	521.6	521.7	521.8	521.7	521.6	521.5	521.5	520.8	519.5	518.2
130°	543.2	543.1	542.9	542.8	542.9	543.1	543.2	543.3	542.7	541.3	539.9
132.5°	563.7	563.6	563.5	563.4	563.5	563.6	563.7	563.9	563.3	562.1	560.9
135°	593.8	593.5	593.3	593.0	593.3	593.5	593.8	594.0	593.5	592.2	591.0
137.5°	621.3	620.9	620.5	620.0	620.5	620.9	621.3	621.8	621.4	620.1	618.9
140°	638.9	638.2	637.6	637.0	637.6	638.2	638.9	639.5	639.3	638.1	637.0
142.5°	655.3	654.7	654.0	653.4	654.0	654.7	655.3	655.9	655.7	654.7	653.6
145°	678.2	677.6	676.9	676.4	676.9	677.6	678.2	678.9	678.7	677.8	676.9
147.5°	698.1	697.7	697.1	696.5	697.1	697.7	698.1	698.7	698.6	698.0	697.3
150°	710.8	710.1	709.5	708.9	709.5	710.1	710.8	711.4	711.3	710.6	709.8
152.5°	721.9	721.1	720.2	719.3	720.2	721.1	721.9	722.8	722.8	722.0	721.2
155°	737.0	736.1	735.0	734.0	735.0	736.1	737.0	738.0	738.2	737.4	736.6
157.5°	750.3	749.3	748.4	747.3	748.4	749.3	750.3	751.3	751.4	750.5	749.7
160°	757.7	756.8	756.0	755.1	756.0	756.8	757.7	758.6	758.7	758.0	757.2
162.5°	764.8	763.7	762.5	761.5	762.5	763.7	764.8	765.9	766.0	765.1	764.3
165°	773.7	772.9	772.0	771.1	772.0	772.9	773.7	774.6	774.6	773.7	772.9
167.5°	780.6	779.4	778.3	777.1	778.3	779.4	780.6	781.7	781.8	781.0	780.1
170°	784.2	783.1	782.0	780.8	782.0	783.1	784.2	785.4	785.5	784.6	783.7
172.5°	786.9	785.8	784.6	783.5	784.6	785.8	786.9	788.1	788.2	787.3	786.4
175°	789.7	788.5	787.2	785.9	787.2	788.5	789.7	791.0	791.2	790.3	789.5
177.5°	790.2	789.2	788.3	787.4	788.3	789.2	790.2	791.1	791.2	790.4	789.8
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



TEST NUMBER: P331561-930

CATALOG NUMBER: S122DIW-S865D710U930-4F0-1E-UDD-A

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°	7.6	7.9	8.2	8.4	8.2	8.4	8.6	8.7	9.3	9.5	9.6
90°	12.1	11.4	10.4	9.4	8.4	7.3	6.1	4.7	3.3	2.0	0.6
92.5°	13.5	13.2	12.7	12.2	11.7	11.3	11.0	11.2	11.3	11.4	11.5
95°	22.9	22.3	21.4	20.5	19.6	18.7	20.4	24.5	28.7	32.9	37.1
97.5°	30.3	29.8	27.7	25.7	23.6	21.6	26.4	38.2	50.1	61.8	73.6
100°	33.5	32.5	30.4	28.2	26.1	23.9	31.6	48.9	66.3	83.6	101.0
102.5°	34.7	33.4	51.4	69.5	87.6	105.6	116.4	120.1	123.8	127.5	131.2
105°	36.2	34.8	69.5	104.0	138.7	173.3	188.7	184.9	181.2	177.3	173.5
107.5°	47.3	48.8	90.3	131.8	173.3	214.8	234.1	231.0	228.0	224.9	221.8
110°	87.2	99.9	136.6	173.2	209.9	246.5	263.5	260.8	258.2	255.5	252.8



TEST NUMBER: P331561-930

CATALOG NUMBER: S122DIW-S865D710U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	205.7	251.9	261.0	270.0	279.1	288.1	291.5	289.1	286.8	284.5	282.1
115°	293.4	352.1	348.9	345.8	342.7	339.5	336.8	334.7	332.5	330.4	328.2
117.5°	375.9	390.0	387.8	385.7	383.5	381.3	379.0	376.6	374.2	371.8	369.4
120°	419.9	418.3	416.0	413.8	411.5	409.2	407.2	405.2	403.3	401.5	399.5
122.5°	446.2	445.3	442.8	440.3	437.8	435.4	433.1	431.1	429.1	427.1	425.1
125°	483.1	482.2	479.9	477.4	475.1	472.6	470.6	469.0	467.3	465.7	464.0
127.5°	516.9	515.6	513.8	512.0	510.2	508.4	506.6	504.8	503.0	501.1	499.3
130°	538.5	537.1	535.7	534.3	532.9	531.5	529.8	527.7	525.7	523.7	521.6
132.5°	559.7	558.6	557.2	555.7	554.3	552.9	551.4	549.7	548.0	546.3	544.5
135°	589.7	588.5	587.3	586.2	585.1	583.9	582.3	580.2	578.2	576.2	574.2
137.5°	617.7	616.4	615.1	613.8	612.5	611.2	609.8	608.5	607.1	605.6	604.2
140°	635.9	634.7	633.2	631.9	630.5	629.1	627.9	626.9	625.8	624.8	623.9
142.5°	652.6	651.6	650.0	648.4	646.8	645.1	643.9	643.0	642.1	641.2	640.3
145°	676.1	675.2	673.0	670.9	668.7	666.6	665.5	665.7	665.9	665.9	666.1
147.5°	696.7	695.9	693.8	691.7	689.6	687.5	686.6	687.1	687.6	688.1	688.5
150°	709.1	708.3	706.3	704.3	702.2	700.2	699.6	700.5	701.4	702.3	703.2
152.5°	720.5	719.7	717.8	715.8	714.0	712.0	711.5	712.5	713.5	714.5	715.5
155°	735.9	735.2	733.6	732.1	730.6	729.0	728.9	730.0	731.2	732.3	733.4
157.5°	748.8	747.9	746.8	745.8	744.7	743.6	743.6	744.5	745.5	746.5	747.5
160°	756.4	755.7	754.9	754.2	753.4	752.6	752.6	753.4	754.2	754.9	755.7
162.5°	763.4	762.5	761.9	761.2	760.5	759.9	759.9	760.7	761.5	762.2	763.0
165°	772.0	771.1	770.7	770.3	770.0	769.6	769.7	770.5	771.3	772.0	772.8
167.5°	779.2	778.3	778.0	777.6	777.2	776.9	777.1	777.8	778.6	779.3	780.1
170°	782.9	782.0	781.7	781.5	781.1	780.9	781.1	782.0	782.7	783.4	784.2
172.5°	785.5	784.6	784.4	784.2	783.9	783.7	783.9	784.6	785.5	786.2	786.9
175°	788.6	787.7	787.4	787.2	786.8	786.6	786.9	787.8	788.7	789.6	790.5
177.5°	789.0	788.3	788.2	788.1	788.0	787.9	788.2	789.0	789.6	790.4	791.1
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



TEST NUMBER: P331561-930

CATALOG NUMBER: S122DIW-S865D710U930-4F0-1E-UDD-A

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°	11.3	13.2	13.5	15.1	14.4	14.7	14.8	14.6	14.4	14.1	13.8
90°	2.0	3.3	4.7	6.1	7.3	8.4	9.4	10.4	11.4	12.1	12.7
92.5°	11.4	11.3	11.2	11.0	11.3	11.7	12.2	12.7	13.2	13.5	13.9
95°	32.9	28.7	24.5	20.4	18.7	19.6	20.5	21.4	22.3	22.9	23.6
97.5°	61.8	50.1	38.2	26.4	21.6	23.6	25.7	27.7	29.8	30.3	30.8
100°	83.6	66.3	48.9	31.6	23.9	26.1	28.2	30.4	32.5	33.5	34.6
102.5°	127.5	123.8	120.1	116.4	105.6	87.6	69.5	51.4	33.4	34.7	36.1
105°	177.3	181.2	184.9	188.7	173.3	138.7	104.0	69.5	34.8	36.2	37.6
107.5°	224.9	228.0	231.0	234.1	214.8	173.3	131.8	90.3	48.8	47.3	45.9
110°	255.5	258.2	260.8	263.5	246.5	209.9	173.2	136.6	99.9	87.2	74.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	284.5	286.8	289.1	291.5	288.1	279.1	270.0	261.0	251.9	205.7	159.4
115°	330.4	332.5	334.7	336.8	339.5	342.7	345.8	348.9	352.1	293.4	234.7
117.5°	371.8	374.2	376.6	379.0	381.3	383.5	385.7	387.8	390.0	375.9	361.7
120°	401.5	403.3	405.2	407.2	409.2	411.5	413.8	416.0	418.3	419.9	421.4
122.5°	427.1	429.1	431.1	433.1	435.4	437.8	440.3	442.8	445.3	446.2	447.1
125°	465.7	467.3	469.0	470.6	472.6	475.1	477.4	479.9	482.2	483.1	484.0
127.5°	501.1	503.0	504.8	506.6	508.4	510.2	512.0	513.8	515.6	516.9	518.2
130°	523.7	525.7	527.7	529.8	531.5	532.9	534.3	535.7	537.1	538.5	539.9
132.5°	546.3	548.0	549.7	551.4	552.9	554.3	555.7	557.2	558.6	559.7	560.9
135°	576.2	578.2	580.2	582.3	583.9	585.1	586.2	587.3	588.5	589.7	591.0
137.5°	605.6	607.1	608.5	609.8	611.2	612.5	613.8	615.1	616.4	617.7	618.9
140°	624.8	625.8	626.9	627.9	629.1	630.5	631.9	633.2	634.7	635.9	637.0
142.5°	641.2	642.1	643.0	643.9	645.1	646.8	648.4	650.0	651.6	652.6	653.6
145°	665.9	665.9	665.7	665.5	666.6	668.7	670.9	673.0	675.2	676.1	676.9
147.5°	688.1	687.6	687.1	686.6	687.5	689.6	691.7	693.8	695.9	696.7	697.3
150°	702.3	701.4	700.5	699.6	700.2	702.2	704.3	706.3	708.3	709.1	709.8
152.5°	714.5	713.5	712.5	711.5	712.0	714.0	715.8	717.8	719.7	720.5	721.2
155°	732.3	731.2	730.0	728.9	729.0	730.6	732.1	733.6	735.2	735.9	736.6
157.5°	746.5	745.5	744.5	743.6	743.6	744.7	745.8	746.8	747.9	748.8	749.7
160°	754.9	754.2	753.4	752.6	752.6	753.4	754.2	754.9	755.7	756.4	757.2
162.5°	762.2	761.5	760.7	759.9	759.9	760.5	761.2	761.9	762.5	763.4	764.3
165°	772.0	771.3	770.5	769.7	769.6	770.0	770.3	770.7	771.1	772.0	772.9
167.5°	779.3	778.6	777.8	777.1	776.9	777.2	777.6	778.0	778.3	779.2	780.1
170°	783.4	782.7	782.0	781.1	780.9	781.1	781.5	781.7	782.0	782.9	783.7
172.5°	786.2	785.5	784.6	783.9	783.7	783.9	784.2	784.4	784.6	785.5	786.4
175°	789.6	788.7	787.8	786.9	786.6	786.8	787.2	787.4	787.7	788.6	789.5
177.5°	790.4	789.6	789.0	788.2	787.9	788.0	788.1	788.2	788.3	789.0	789.8
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



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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°	14.3	14.5	14.1	14.2	14.7	14.3	14.3
90°	13.3	13.9	14.4	14.7	14.9	15.2	15.4
92.5°	14.3	14.6	14.8	14.9	15.1	15.2	15.4
95°	24.1	24.8	25.0	24.9	24.8	24.7	24.5
97.5°	31.3	31.8	32.1	32.3	32.4	32.6	32.8
100°	35.5	36.6	37.3	37.5	37.7	38.0	38.2
102.5°	37.4	38.7	39.5	39.9	40.3	40.6	41.0
105°	39.0	40.4	41.3	41.8	42.4	42.9	43.4
107.5°	44.5	43.0	42.6	43.1	43.6	44.1	44.6
110°	61.8	49.2	43.0	43.5	44.1	44.6	45.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	113.2	66.9	43.9	44.4	44.8	45.2	45.6
115°	175.9	117.2	83.3	74.2	65.1	55.9	46.8
117.5°	347.4	333.2	311.1	281.1	251.1	221.1	191.1
120°	422.9	424.4	416.6	399.5	382.4	365.3	348.1
122.5°	448.0	449.0	447.8	444.4	441.1	437.8	434.5
125°	484.9	485.8	486.5	486.8	487.2	487.6	488.0
127.5°	519.5	520.8	521.5	521.5	521.6	521.7	521.8
130°	541.3	542.7	543.3	543.2	543.1	542.9	542.8
132.5°	562.1	563.3	563.9	563.7	563.6	563.5	563.4
135°	592.2	593.5	594.0	593.8	593.5	593.3	593.0
137.5°	620.1	621.4	621.8	621.3	620.9	620.5	620.0
140°	638.1	639.3	639.5	638.9	638.2	637.6	637.0
142.5°	654.7	655.7	655.9	655.3	654.7	654.0	653.4
145°	677.8	678.7	678.9	678.2	677.6	676.9	676.4
147.5°	698.0	698.6	698.7	698.1	697.7	697.1	696.5
150°	710.6	711.3	711.4	710.8	710.1	709.5	708.9
152.5°	722.0	722.8	722.8	721.9	721.1	720.2	719.3
155°	737.4	738.2	738.0	737.0	736.1	735.0	734.0
157.5°	750.5	751.4	751.3	750.3	749.3	748.4	747.3
160°	758.0	758.7	758.6	757.7	756.8	756.0	755.1
162.5°	765.1	766.0	765.9	764.8	763.7	762.5	761.5
165°	773.7	774.6	774.6	773.7	772.9	772.0	771.1
167.5°	781.0	781.8	781.7	780.6	779.4	778.3	777.1
170°	784.6	785.5	785.4	784.2	783.1	782.0	780.8
172.5°	787.3	788.2	788.1	786.9	785.8	784.6	783.5
175°	790.3	791.2	791.0	789.7	788.5	787.2	785.9
177.5°	790.4	791.2	791.1	790.2	789.2	788.3	787.4
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8

(END OF REPORT)