

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: P331377-927

Luminaire Tested: **SA2XXDIP-C865D330U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331377-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C865D330U927-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4031.7 lumens
Efficiency: N/A
Efficacy: 92.7 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: Semi-Direct

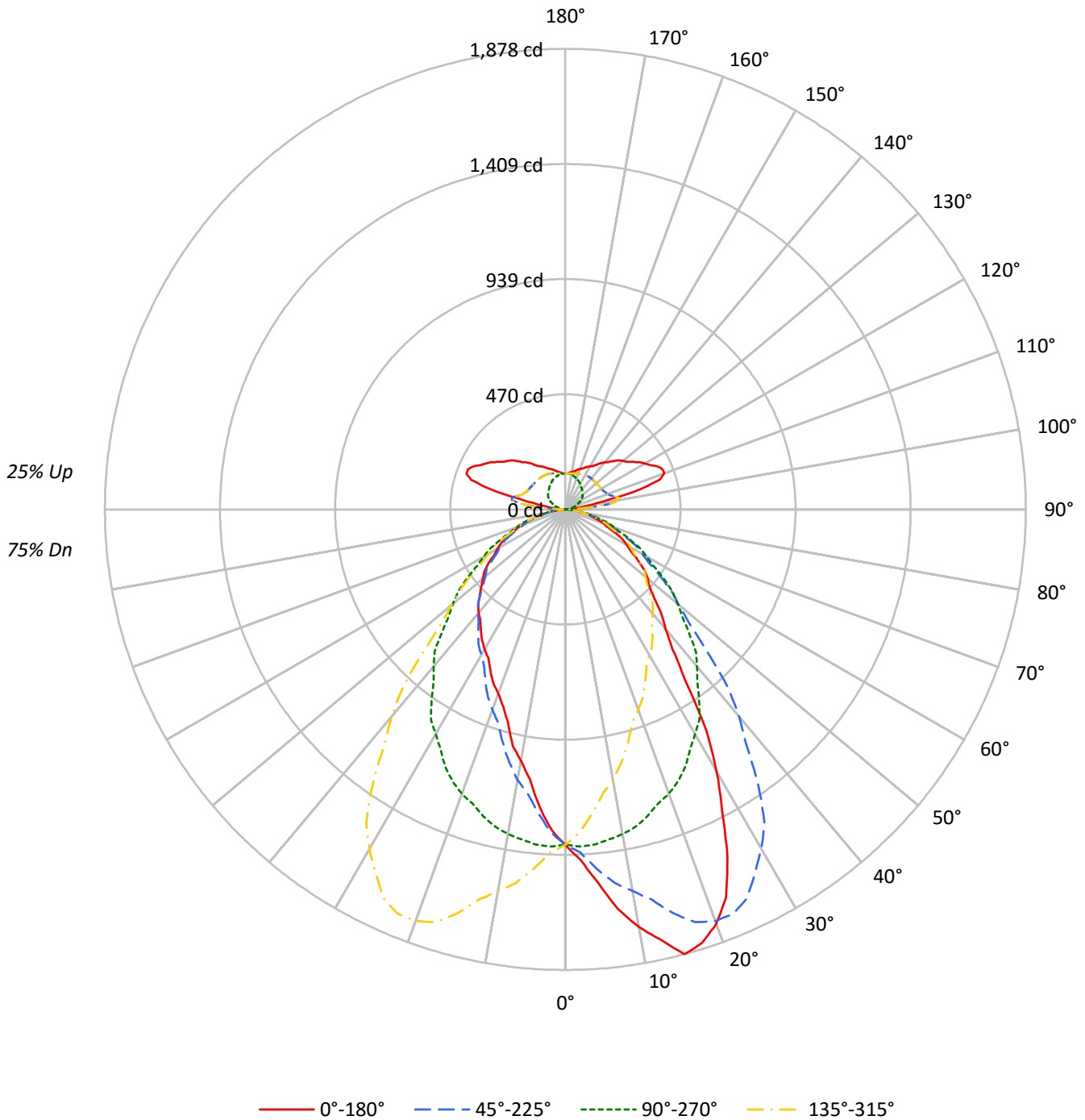
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	104	100	96	93	99	95	92	89	86	84	82	78	76	75	71	70	68	65
2	95	88	82	77	91	84	79	74	77	72	69	70	66	63	63	61	59	55
3	88	78	71	65	83	75	68	63	68	63	59	62	58	55	57	53	51	48
4	81	70	62	56	76	67	60	54	61	55	51	56	51	47	51	47	44	41
5	74	63	55	49	71	60	53	47	55	49	44	51	46	42	47	42	39	37
6	69	57	49	43	65	54	47	42	50	44	39	46	41	37	43	38	35	32
7	64	52	44	38	61	50	42	37	46	40	35	42	37	33	39	35	31	29
8	60	47	39	34	57	45	38	33	42	36	32	39	34	30	36	32	28	26
9	56	43	36	31	53	42	35	30	39	33	29	36	31	27	33	29	26	24
10	52	40	33	28	50	39	32	27	36	30	26	34	28	25	31	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	22083	22083	22083	22083
5°	24759	22227	19697	22227
10°	28370	22046	17046	22046
15°	31385	21641	15059	21641
20°	30907	21206	13728	21206
25°	27868	20630	12886	20630
30°	23029	19708	12269	19708
35°	16783	18743	11832	18743
40°	13405	17606	11590	17606
45°	11714	16287	11259	16287
50°	11012	15013	11037	15013
55°	10151	13717	10742	13717
60°	9300	12339	10285	12339
65°	8474	11106	9838	11106
70°	7695	9904	9182	9904
75°	6818	8559	8135	8559
80°	5867	7085	6546	7085
85°	5261	5261	3890	5261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	3.2
10°-20°	378.7	9.4
20°-30°	549.6	13.6
30°-40°	579.9	14.4
40°-50°	513.5	12.7
50°-60°	409.8	10.2
60°-70°	278.5	6.9
70°-80°	142.8	3.5
80°-90°	35.7	0.9
90°-100°	58.2	1.4
100°-110°	197.5	4.9
110°-120°	209.8	5.2
120°-130°	172.7	4.3
130°-140°	138.7	3.4
140°-150°	104.8	2.6
150°-160°	73.7	1.8
160°-170°	43.4	1.1
170°-180°	14.1	0.4
0°-30°	1058.5	26.3
0°-40°	1638.5	40.6
0°-60°	2561.8	63.5
0°-90°	3018.8	74.9
90°-120°	465.5	11.5
90°-150°	881.7	21.9
90°-180°	1013.0	25.1
0°-180°	4031.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1368	1368	1368	1368	1368	
5°	1528	1371	1215	1371	1528	153
15°	1878	1295	901	1295	1878	518
25°	1564	1158	723	1158	1564	707
35°	852	951	600	951	852	554
45°	513	713	493	713	513	403
55°	361	487	382	487	361	323
65°	222	291	258	291	222	221
75°	109	137	130	137	109	117
85°	28	28	21	28	28	31
90°	9	0	9	0	9	6
95°	32	10	32	10	32	41
105°	315	34	315	34	315	305
115°	415	60	415	60	415	406
125°	337	84	337	84	337	304
135°	279	98	279	98	279	217
145°	223	112	223	112	223	142
155°	187	128	187	128	187	87
165°	164	139	164	139	164	47
175°	148	145	148	145	148	14
180°	146	146	146	146	146	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7
2.5°	1430.8	1431.2	1432.1	1425.4	1424.5	1424.5	1418.6	1413.6	1407.7	1399.7	1400.6
5°	1527.6	1533.3	1535.4	1529.1	1519.6	1518.6	1509.7	1494.9	1481.3	1470.2	1462.4
7.5°	1643.0	1645.3	1640.1	1631.8	1624.8	1612.2	1595.5	1579.3	1556.5	1535.6	1520.0
10°	1730.4	1733.6	1724.7	1712.5	1702.6	1687.8	1663.7	1638.9	1609.0	1580.1	1557.0
12.5°	1796.9	1804.7	1793.2	1791.6	1774.5	1754.3	1725.5	1713.0	1670.9	1630.5	1605.8
15°	1877.6	1877.1	1878.2	1868.1	1855.5	1852.4	1821.9	1788.8	1729.4	1705.7	1664.8
17.5°	1854.3	1862.3	1866.0	1865.8	1865.5	1863.5	1853.8	1832.9	1803.1	1764.7	1717.4
20°	1798.8	1809.3	1810.8	1823.0	1829.8	1838.7	1842.4	1836.6	1818.2	1786.1	1745.2
22.5°	1713.0	1715.9	1720.9	1739.7	1754.5	1776.9	1788.6	1808.0	1800.9	1785.3	1751.0
25°	1564.3	1559.1	1577.5	1586.9	1621.1	1656.8	1682.6	1711.0	1736.2	1751.4	1741.5
27.5°	1385.8	1377.9	1405.5	1430.6	1458.3	1497.1	1537.2	1584.6	1624.1	1673.3	1690.3
30°	1235.2	1240.0	1266.3	1293.1	1335.1	1389.8	1435.0	1487.1	1543.3	1598.5	1636.9
32.5°	1072.9	1091.2	1107.8	1148.8	1185.9	1246.8	1313.0	1378.2	1448.3	1511.0	1570.4
35°	851.5	872.6	895.7	925.7	977.7	1038.2	1102.8	1190.6	1286.3	1372.0	1442.4
37.5°	716.8	713.4	726.7	748.3	790.4	839.2	913.7	1000.4	1113.0	1213.7	1313.0
40°	636.0	633.9	643.4	663.4	695.5	731.2	796.4	872.6	977.2	1100.2	1218.5
42.5°	580.5	581.8	587.0	601.1	623.1	652.5	701.3	766.2	862.0	977.8	1104.9
45°	513.0	516.7	522.5	529.3	541.9	566.1	593.4	639.7	715.4	812.1	937.2
47.5°	464.5	464.5	470.5	476.4	483.9	497.6	519.8	548.9	602.3	681.0	788.6
50°	438.4	434.7	438.9	443.6	451.5	461.0	475.7	503.0	538.8	602.4	692.3
52.5°	406.5	406.5	410.4	412.1	419.1	428.6	442.0	461.0	493.4	543.1	617.0
55°	360.6	363.2	365.4	368.4	374.8	381.6	392.1	404.7	430.0	467.3	522.0
57.5°	317.5	318.3	320.4	326.5	330.4	336.8	346.7	358.1	374.5	402.2	443.3
60°	288.0	288.0	292.2	294.9	300.2	306.4	314.3	325.3	340.1	362.7	395.9
62.5°	261.2	260.7	262.4	266.7	270.7	276.6	284.5	293.8	307.7	327.8	355.1
65°	221.8	220.8	223.9	225.0	229.2	235.0	241.3	251.3	262.3	277.0	301.2
67.5°	183.9	185.2	187.0	188.9	191.2	197.3	201.5	208.6	217.9	230.1	246.5
70°	163.0	163.0	163.0	164.5	167.7	170.9	175.1	180.9	189.7	200.3	215.0
72.5°	139.4	141.1	142.8	141.8	145.8	147.7	152.7	156.0	164.5	171.3	184.3
75°	109.3	109.3	109.3	111.9	113.5	115.1	118.3	121.4	125.6	134.0	140.9
77.5°	81.6	81.4	81.9	82.5	84.2	86.1	87.1	89.9	93.8	97.7	103.5
80°	63.1	64.2	64.6	65.7	65.7	66.8	67.3	71.0	73.6	76.2	79.9
82.5°	48.8	49.0	49.1	49.3	49.7	50.4	51.7	52.9	53.8	56.0	58.9
85°	28.4	27.9	27.9	28.9	28.4	28.4	29.5	30.5	30.5	31.0	32.6
87.5°	12.8	12.8	13.2	12.8	12.8	13.2	13.1	12.8	13.2	13.7	14.0
90°	9.3	9.3	9.3	9.3	9.3	9.0	8.4	9.0	9.3	9.5	9.3
92.5°	15.5	15.9	15.8	16.6	16.9	18.6	20.9	24.4	30.7	36.4	35.9
95°	31.9	31.6	32.5	34.7	38.3	44.5	56.2	73.4	96.0	109.7	97.1
97.5°	62.8	65.2	69.2	76.1	89.5	109.7	140.0	171.1	196.5	187.3	141.1
100°	100.2	105.3	113.4	125.4	148.6	182.5	220.9	255.6	261.4	221.1	152.3
102.5°	176.3	183.2	193.3	213.8	239.1	275.0	303.0	310.9	285.6	222.2	148.0
105°	315.4	319.3	331.4	348.7	366.1	375.3	371.7	340.1	281.9	207.4	139.7
107.5°	403.0	408.1	410.6	411.5	409.3	395.8	366.7	319.0	257.3	191.5	135.5
110°	429.4	429.7	427.1	421.8	409.8	386.8	351.0	300.9	241.9	183.9	134.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	428.9	427.4	422.6	413.8	397.0	370.7	332.4	284.3	231.1	179.0	134.8
115°	415.1	412.6	405.3	392.4	372.6	343.7	307.0	264.0	217.8	173.6	136.0
117.5°	390.4	388.2	380.6	367.0	346.7	319.7	286.5	248.6	209.4	170.9	138.1
120°	374.5	371.7	363.6	350.5	330.8	305.4	275.7	241.0	204.9	169.4	139.4
122.5°	357.9	355.6	348.4	335.4	317.8	294.9	266.7	235.0	201.1	168.4	140.9
125°	336.8	334.5	327.5	316.9	300.6	279.6	255.0	226.2	195.7	166.8	143.3
127.5°	318.1	316.3	310.3	300.3	286.1	266.8	243.6	217.5	190.6	165.9	145.7
130°	307.6	305.4	299.8	290.3	276.6	258.1	236.0	211.9	187.3	165.4	147.5
132.5°	296.7	294.6	289.5	280.0	266.5	249.1	228.8	206.5	184.6	165.2	149.3
135°	279.1	278.0	272.9	263.6	251.6	236.0	217.5	199.0	180.8	164.9	151.5
137.5°	261.8	260.2	255.7	247.8	236.8	223.2	208.5	193.1	178.2	164.8	153.4
140°	249.9	248.3	244.1	236.8	227.8	215.6	202.6	189.2	176.6	164.6	154.2
142.5°	238.1	237.7	234.0	227.4	218.9	208.6	197.5	186.1	175.1	164.6	154.9
145°	222.8	222.0	219.2	214.4	207.7	199.6	190.9	181.6	173.0	164.0	155.6
147.5°	210.0	209.5	207.6	203.7	198.2	192.3	185.5	178.2	170.9	163.0	155.8
150°	202.4	202.1	200.4	197.0	192.8	187.8	182.0	175.8	169.1	162.3	155.6
152.5°	195.9	195.8	194.6	191.7	188.4	184.0	179.0	173.3	167.5	161.2	155.2
155°	187.3	187.8	186.7	184.7	181.6	178.6	174.4	169.9	164.6	159.2	154.5
157.5°	179.9	179.9	179.4	177.8	175.6	173.2	169.7	166.0	161.8	157.2	153.2
160°	175.2	175.2	174.9	173.6	171.6	169.6	166.5	163.4	159.8	155.9	152.6
162.5°	170.7	171.0	170.7	169.8	167.8	166.3	163.7	161.0	158.0	154.8	151.9
165°	164.3	164.6	164.6	163.4	162.3	161.2	159.2	157.3	155.0	152.6	150.6
167.5°	158.4	158.7	158.8	158.1	157.6	156.6	155.3	153.8	152.2	150.6	149.3
170°	154.8	155.3	155.6	154.8	154.5	153.9	152.8	152.0	150.6	149.5	148.6
172.5°	151.9	152.2	152.5	152.1	151.8	151.5	150.6	150.0	149.0	148.1	147.7
175°	148.1	148.6	148.9	148.6	148.6	148.4	148.1	147.8	146.9	146.6	146.4
177.5°	145.8	146.2	146.5	146.5	146.5	146.5	146.2	146.2	145.8	145.5	145.8
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7
2.5°	1403.5	1400.1	1398.0	1390.4	1383.7	1377.0	1374.9	1375.7	1366.5	1357.6	1353.8
5°	1458.2	1447.6	1437.7	1423.5	1406.7	1388.2	1378.8	1371.4	1353.0	1333.1	1321.5
7.5°	1507.1	1492.1	1472.9	1446.2	1421.7	1392.7	1374.4	1358.0	1331.2	1303.0	1285.7
10°	1537.0	1516.5	1491.8	1459.2	1429.3	1394.0	1369.3	1344.7	1313.0	1279.5	1258.4
12.5°	1562.7	1535.0	1510.7	1468.9	1433.5	1389.4	1360.1	1325.2	1292.0	1252.1	1231.5
15°	1623.7	1572.7	1526.5	1479.2	1435.5	1374.0	1341.5	1294.7	1251.0	1201.7	1178.0
17.5°	1671.0	1613.7	1540.8	1480.7	1429.7	1361.7	1313.8	1257.7	1206.2	1149.7	1117.5
20°	1697.9	1632.1	1553.8	1482.3	1421.3	1343.5	1291.5	1234.2	1173.8	1110.2	1075.5
22.5°	1713.8	1644.7	1567.3	1476.0	1404.5	1328.8	1263.4	1200.6	1139.3	1070.6	1034.3
25°	1718.9	1655.8	1573.8	1470.8	1383.5	1297.8	1219.0	1158.0	1083.9	1019.8	966.7
27.5°	1693.8	1648.6	1569.8	1460.9	1359.2	1259.0	1171.2	1102.1	1023.9	954.3	900.9
30°	1663.2	1636.9	1560.1	1450.8	1339.9	1232.2	1135.4	1057.1	979.3	908.9	854.2
32.5°	1615.7	1610.0	1542.5	1436.5	1319.3	1198.1	1098.0	1018.8	932.6	863.4	811.3
35°	1522.3	1547.5	1504.9	1404.5	1280.5	1149.6	1041.3	950.9	861.6	795.3	746.4
37.5°	1397.2	1459.8	1448.7	1357.7	1228.1	1096.9	977.3	882.8	797.6	730.8	682.8
40°	1311.0	1390.8	1402.4	1322.0	1191.1	1056.1	929.4	835.3	752.2	691.3	642.9
42.5°	1218.5	1311.8	1343.5	1279.1	1150.7	1013.1	886.5	789.0	706.8	647.5	604.6
45°	1063.4	1186.9	1244.2	1207.4	1083.4	942.5	812.1	713.3	638.7	583.0	549.9
47.5°	918.4	1053.4	1130.4	1117.5	1008.4	868.9	740.0	645.2	572.5	528.1	498.4
50°	815.8	954.6	1047.6	1051.9	954.6	816.3	687.1	597.7	530.9	489.4	465.2
52.5°	726.7	859.1	960.6	982.9	894.5	761.7	639.5	550.6	491.8	453.6	432.0
55°	610.3	722.2	834.7	875.8	804.8	678.6	565.6	487.3	432.1	405.8	386.9
57.5°	507.4	600.7	704.6	749.9	706.2	598.2	492.2	424.2	379.4	356.4	341.9
60°	453.1	526.7	619.2	673.4	635.5	539.3	446.8	382.1	345.4	324.9	311.2
62.5°	402.7	467.9	546.1	595.6	575.0	484.3	401.4	344.3	312.5	293.3	283.4
65°	332.2	383.7	444.2	489.9	476.3	407.3	339.6	290.7	265.5	250.2	242.3
67.5°	273.5	310.8	352.7	392.8	381.8	333.0	278.5	240.4	221.7	208.5	203.7
70°	236.5	264.9	302.2	334.3	325.3	285.4	242.3	209.8	193.5	182.4	177.7
72.5°	201.2	224.6	253.0	279.2	273.2	240.0	204.1	179.4	166.9	156.8	152.9
75°	151.9	169.8	187.1	204.5	202.9	177.1	156.1	137.2	127.2	119.3	117.7
77.5°	112.2	122.2	134.0	144.3	141.4	126.7	110.2	99.3	92.0	86.7	85.9
80°	85.7	91.5	99.9	107.3	103.5	97.3	84.1	76.2	71.0	65.7	63.6
82.5°	62.1	67.9	73.0	76.9	74.1	68.2	60.1	54.7	51.7	48.0	47.2
85°	32.6	35.7	37.9	38.9	37.9	34.1	30.5	28.4	25.7	24.2	23.7
87.5°	14.1	13.7	13.5	14.1	12.8	12.7	10.8	9.3	9.0	8.9	8.2
90°	7.5	5.6	4.2	3.3	2.8	2.2	1.1	0.3	1.1	2.2	2.8
92.5°	28.0	19.0	12.7	10.1	8.2	7.0	4.9	3.4	4.9	7.0	8.2
95°	64.6	40.3	27.4	20.7	16.2	13.7	10.9	9.8	10.9	13.7	16.2
97.5°	87.1	53.2	37.0	29.4	24.2	20.4	17.4	15.9	17.4	20.4	24.2
100°	91.8	57.7	42.9	35.0	29.4	24.9	22.4	21.5	22.4	24.9	29.4
102.5°	92.1	61.7	48.0	40.2	34.3	29.9	27.3	26.7	27.3	29.9	34.3
105°	93.5	68.6	55.5	47.6	41.4	37.2	35.3	34.1	35.3	37.2	41.4
107.5°	97.4	75.7	62.9	55.0	48.9	45.0	43.1	42.2	43.1	45.0	48.9
110°	100.4	80.3	68.0	59.9	54.0	50.4	48.7	47.6	48.7	50.4	54.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	103.9	84.8	73.0	64.6	58.9	55.5	53.6	52.5	53.6	55.5	58.9
115°	108.8	91.8	79.8	72.2	66.6	63.3	61.6	60.2	61.6	63.3	66.6
117.5°	114.2	98.2	87.1	79.3	73.9	70.9	69.2	68.1	69.2	70.9	73.9
120°	117.9	102.7	91.8	84.0	78.3	75.9	74.1	73.0	74.1	75.9	78.3
122.5°	121.0	106.9	96.7	88.6	83.1	80.3	78.7	77.8	78.7	80.3	83.1
125°	126.0	113.4	103.3	95.5	89.8	86.5	84.8	84.0	84.8	86.5	89.8
127.5°	130.6	119.3	109.5	101.4	96.1	92.4	90.0	88.9	90.0	92.4	96.1
130°	133.5	122.9	113.0	105.3	99.7	95.7	92.9	91.8	92.9	95.7	99.7
132.5°	136.4	126.0	116.7	108.8	103.0	98.9	95.9	94.5	95.9	98.9	103.0
135°	140.2	130.5	121.4	113.7	107.2	103.0	99.7	98.5	99.7	103.0	107.2
137.5°	143.1	134.0	125.2	117.9	111.5	107.0	103.7	102.3	103.7	107.0	111.5
140°	144.7	136.0	127.6	120.3	114.2	109.7	106.4	105.3	106.4	109.7	114.2
142.5°	146.1	137.6	129.4	122.6	116.7	112.2	109.1	108.1	109.1	112.2	116.7
145°	147.8	140.0	132.4	126.3	120.6	116.5	113.7	112.5	113.7	116.5	120.6
147.5°	148.8	141.9	134.8	129.3	124.6	120.7	118.0	117.2	118.0	120.7	124.6
150°	149.2	142.8	136.3	131.3	127.1	123.4	121.2	120.3	121.2	123.4	127.1
152.5°	149.4	143.6	137.8	133.3	129.3	126.1	123.9	123.5	123.9	126.1	129.3
155°	149.7	145.0	140.2	136.0	132.9	129.8	128.2	127.9	128.2	129.8	132.9
157.5°	149.7	145.9	141.9	138.4	135.9	133.2	131.9	131.6	131.9	133.2	135.9
160°	149.7	146.4	143.1	140.0	137.7	135.5	134.4	134.0	134.4	135.5	137.7
162.5°	149.5	146.6	143.7	141.3	139.3	137.5	136.3	136.6	136.3	137.5	139.3
165°	148.9	146.9	144.4	142.8	141.3	139.7	139.1	139.4	139.1	139.7	141.3
167.5°	148.5	146.9	145.0	144.0	143.0	141.9	141.4	141.7	141.4	141.9	143.0
170°	148.1	146.6	145.3	144.4	143.9	143.1	142.8	143.3	142.8	143.1	143.9
172.5°	147.4	146.5	145.5	144.9	144.6	143.7	143.9	144.2	143.9	143.7	144.6
175°	146.6	146.1	145.5	145.3	145.3	144.7	145.0	145.3	145.0	144.7	145.3
177.5°	146.2	145.8	145.5	145.5	145.5	145.1	145.3	145.8	145.3	145.1	145.5
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



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CATALOG NUMBER: SA2XXDIP-C865D330U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7
2.5°	1349.6	1347.1	1338.3	1333.7	1326.1	1319.0	1314.3	1316.4	1318.1	1317.2	1316.1
5°	1311.0	1301.0	1285.7	1272.6	1263.1	1245.8	1238.4	1234.8	1231.6	1227.9	1224.2
7.5°	1265.0	1249.2	1227.2	1208.6	1190.9	1169.3	1157.1	1149.7	1142.2	1133.9	1126.5
10°	1232.2	1210.1	1186.9	1160.6	1139.6	1120.1	1102.8	1091.2	1080.8	1070.7	1063.4
12.5°	1197.6	1172.2	1143.6	1107.6	1084.5	1056.7	1054.0	1033.6	1017.2	1011.1	1002.4
15°	1142.8	1107.0	1070.7	1028.2	1009.8	984.5	968.8	953.0	938.8	928.8	926.2
17.5°	1080.5	1034.2	998.1	967.5	937.3	911.5	897.0	884.4	872.7	859.4	857.5
20°	1032.9	992.9	953.5	926.7	895.7	869.4	851.5	838.9	828.9	821.1	814.2
22.5°	987.9	944.2	908.1	878.8	848.2	827.0	812.9	800.7	792.3	783.6	777.2
25°	915.7	881.5	842.1	809.0	783.7	770.1	758.5	748.0	742.8	737.0	729.6
27.5°	852.5	814.5	777.7	752.0	729.8	717.7	709.6	702.3	697.4	694.0	689.8
30°	807.9	769.5	740.6	715.4	697.0	684.9	679.7	675.5	669.7	667.6	665.5
32.5°	765.0	730.5	705.8	683.9	666.3	658.5	653.6	649.8	645.3	643.2	639.0
35°	704.4	675.5	651.3	639.2	625.0	618.1	614.5	609.3	605.0	602.9	602.4
37.5°	647.3	622.2	606.3	590.7	584.7	580.5	575.5	571.9	570.6	570.3	569.8
40°	610.3	589.8	575.6	563.0	560.3	554.1	549.9	546.7	546.7	547.2	546.7
42.5°	576.6	558.3	545.7	534.8	531.7	528.0	523.8	523.6	524.4	526.2	524.4
45°	525.6	512.5	503.6	498.3	492.5	488.9	488.3	489.9	490.4	491.0	492.5
47.5°	478.8	470.0	461.9	456.1	453.6	453.0	452.3	455.1	457.6	458.6	461.0
50°	451.0	441.0	434.2	430.5	428.4	427.4	428.4	431.6	433.6	436.3	437.8
52.5°	419.9	412.8	408.1	405.3	404.4	405.0	405.3	408.8	412.3	413.1	413.9
55°	376.9	371.6	370.6	365.8	368.0	367.4	370.0	372.2	375.3	378.5	379.0
57.5°	334.0	329.8	326.9	327.4	328.0	330.3	332.6	336.2	339.6	342.9	343.3
60°	305.4	303.3	301.7	301.7	302.8	305.9	308.6	312.2	314.3	316.5	318.0
62.5°	279.3	277.3	275.7	276.5	279.2	281.1	284.2	286.1	288.3	290.3	291.1
65°	238.1	237.1	238.7	239.7	240.2	242.9	246.5	248.1	250.2	251.3	254.9
67.5°	200.2	200.3	200.2	201.6	204.7	205.3	208.8	212.5	212.9	214.9	217.3
70°	174.5	175.5	176.7	177.7	180.3	181.3	183.9	185.5	187.7	189.3	190.8
72.5°	151.0	151.1	152.3	152.0	154.2	156.5	158.8	160.3	162.4	164.5	166.0
75°	116.1	116.1	117.2	117.7	120.4	123.0	122.5	123.5	125.6	127.7	128.8
77.5°	84.8	83.7	84.8	85.4	86.2	88.4	88.8	90.3	92.7	92.0	93.2
80°	64.6	63.1	64.6	65.2	65.2	67.8	67.8	68.8	70.4	68.8	70.4
82.5°	46.2	45.4	46.6	46.7	47.5	47.6	48.5	48.6	50.2	49.5	50.2
85°	23.1	22.6	23.1	22.6	23.1	23.7	23.7	23.1	23.1	24.2	22.6
87.5°	7.8	7.6	7.4	7.8	7.8	7.4	6.9	6.8	6.7	6.0	6.0
90°	3.3	4.2	5.6	7.5	9.3	9.5	9.3	9.0	8.4	9.0	9.3
92.5°	10.1	12.7	19.0	28.0	35.9	36.4	30.7	24.4	20.9	18.6	16.9
95°	20.7	27.4	40.3	64.6	97.1	109.7	96.0	73.4	56.2	44.5	38.3
97.5°	29.4	37.0	53.2	87.1	141.1	187.3	196.5	171.1	140.0	109.7	89.5
100°	35.0	42.9	57.7	91.8	152.3	221.1	261.4	255.6	220.9	182.5	148.6
102.5°	40.2	48.0	61.7	92.1	148.0	222.2	285.6	310.9	303.0	275.0	239.1
105°	47.6	55.5	68.6	93.5	139.7	207.4	281.9	340.1	371.7	375.3	366.1
107.5°	55.0	62.9	75.7	97.4	135.5	191.5	257.3	319.0	366.7	395.8	409.3
110°	59.9	68.0	80.3	100.4	134.7	183.9	241.9	300.9	351.0	386.8	409.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	64.6	73.0	84.8	103.9	134.8	179.0	231.1	284.3	332.4	370.7	397.0
115°	72.2	79.8	91.8	108.8	136.0	173.6	217.8	264.0	307.0	343.7	372.6
117.5°	79.3	87.1	98.2	114.2	138.1	170.9	209.4	248.6	286.5	319.7	346.7
120°	84.0	91.8	102.7	117.9	139.4	169.4	204.9	241.0	275.7	305.4	330.8
122.5°	88.6	96.7	106.9	121.0	140.9	168.4	201.1	235.0	266.7	294.9	317.8
125°	95.5	103.3	113.4	126.0	143.3	166.8	195.7	226.2	255.0	279.6	300.6
127.5°	101.4	109.5	119.3	130.6	145.7	165.9	190.6	217.5	243.6	266.8	286.1
130°	105.3	113.0	122.9	133.5	147.5	165.4	187.3	211.9	236.0	258.1	276.6
132.5°	108.8	116.7	126.0	136.4	149.3	165.2	184.6	206.5	228.8	249.1	266.5
135°	113.7	121.4	130.5	140.2	151.5	164.9	180.8	199.0	217.5	236.0	251.6
137.5°	117.9	125.2	134.0	143.1	153.4	164.8	178.2	193.1	208.5	223.2	236.8
140°	120.3	127.6	136.0	144.7	154.2	164.6	176.6	189.2	202.6	215.6	227.8
142.5°	122.6	129.4	137.6	146.1	154.9	164.6	175.1	186.1	197.5	208.6	218.9
145°	126.3	132.4	140.0	147.8	155.6	164.0	173.0	181.6	190.9	199.6	207.7
147.5°	129.3	134.8	141.9	148.8	155.8	163.0	170.9	178.2	185.5	192.3	198.2
150°	131.3	136.3	142.8	149.2	155.6	162.3	169.1	175.8	182.0	187.8	192.8
152.5°	133.3	137.8	143.6	149.4	155.2	161.2	167.5	173.3	179.0	184.0	188.4
155°	136.0	140.2	145.0	149.7	154.5	159.2	164.6	169.9	174.4	178.6	181.6
157.5°	138.4	141.9	145.9	149.7	153.2	157.2	161.8	166.0	169.7	173.2	175.6
160°	140.0	143.1	146.4	149.7	152.6	155.9	159.8	163.4	166.5	169.6	171.6
162.5°	141.3	143.7	146.6	149.5	151.9	154.8	158.0	161.0	163.7	166.3	167.8
165°	142.8	144.4	146.9	148.9	150.6	152.6	155.0	157.3	159.2	161.2	162.3
167.5°	144.0	145.0	146.9	148.5	149.3	150.6	152.2	153.8	155.3	156.6	157.6
170°	144.4	145.3	146.6	148.1	148.6	149.5	150.6	152.0	152.8	153.9	154.5
172.5°	144.9	145.5	146.5	147.4	147.7	148.1	149.0	150.0	150.6	151.5	151.8
175°	145.3	145.5	146.1	146.6	146.4	146.6	146.9	147.8	148.1	148.4	148.6
177.5°	145.5	145.5	145.8	146.2	145.8	145.5	145.8	146.2	146.2	146.5	146.5
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7
2.5°	1311.8	1311.0	1311.0	1307.2	1311.0	1311.0	1311.8	1316.1	1317.2	1318.1	1316.4
5°	1216.9	1215.3	1212.7	1215.3	1212.7	1215.3	1216.9	1224.2	1227.9	1231.6	1234.8
7.5°	1123.0	1116.7	1115.7	1109.5	1115.7	1116.7	1123.0	1126.5	1133.9	1142.2	1149.7
10°	1054.5	1050.3	1049.7	1039.7	1049.7	1050.3	1054.5	1063.4	1070.7	1080.8	1091.2
12.5°	1002.3	992.2	994.2	988.4	994.2	992.2	1002.3	1002.4	1011.1	1017.2	1033.6
15°	912.0	912.0	909.9	900.9	909.9	912.0	912.0	926.2	928.8	938.8	953.0
17.5°	847.2	846.1	841.1	843.6	841.1	846.1	847.2	857.5	859.4	872.7	884.4
20°	808.4	805.3	799.0	799.0	799.0	805.3	808.4	814.2	821.1	828.9	838.9
22.5°	771.9	771.7	764.9	767.0	764.9	771.7	771.9	777.2	783.6	792.3	800.7
25°	729.0	724.8	721.8	723.3	721.8	724.8	729.0	729.6	737.0	742.8	748.0
27.5°	688.5	686.2	686.0	681.7	686.0	686.2	688.5	689.8	694.0	697.4	702.3
30°	665.0	659.7	660.8	658.1	660.8	659.7	665.0	665.5	667.6	669.7	675.5
32.5°	638.0	636.1	635.1	632.9	635.1	636.1	638.0	639.0	643.2	645.3	649.8
35°	601.3	601.9	599.2	600.3	599.2	601.9	601.3	602.4	602.9	605.0	609.3
37.5°	569.3	570.9	569.7	570.1	569.7	570.9	569.3	569.8	570.3	570.6	571.9
40°	548.3	548.3	548.3	549.9	548.3	548.3	548.3	546.7	547.2	546.7	546.7
42.5°	528.1	527.2	526.4	526.2	526.4	527.2	528.1	524.4	526.2	524.4	523.6
45°	493.6	495.2	495.7	493.1	495.7	495.2	493.6	492.5	491.0	490.4	489.9
47.5°	462.4	462.6	462.4	464.7	462.4	462.6	462.4	461.0	458.6	457.6	455.1
50°	440.5	439.4	440.5	439.4	440.5	439.4	440.5	437.8	436.3	433.6	431.6
52.5°	417.4	417.6	416.9	416.8	416.9	417.6	417.4	413.9	413.1	412.3	408.8
55°	381.1	382.1	381.6	381.6	381.6	382.1	381.1	379.0	378.5	375.3	372.2
57.5°	343.6	344.5	345.2	342.9	345.2	344.5	343.6	343.3	342.9	339.6	336.2
60°	317.5	320.1	319.6	318.5	319.6	320.1	317.5	318.0	316.5	314.3	312.2
62.5°	293.5	294.5	294.4	294.1	294.4	294.5	293.5	291.1	290.3	288.3	286.1
65°	256.5	257.5	256.0	257.5	256.0	257.5	256.5	254.9	251.3	250.2	248.1
67.5°	216.7	217.0	218.2	218.9	218.2	217.0	216.7	217.3	214.9	212.9	212.5
70°	191.9	191.3	192.9	194.5	192.9	191.3	191.9	190.8	189.3	187.7	185.5
72.5°	165.8	166.9	166.4	167.5	166.4	166.9	165.8	166.0	164.5	162.4	160.3
75°	127.7	129.3	128.8	130.4	128.8	129.3	127.7	128.8	127.7	125.6	123.5
77.5°	92.3	92.5	92.3	93.2	92.3	92.5	92.3	93.2	92.0	92.7	90.3
80°	70.4	69.4	68.4	70.4	68.4	69.4	70.4	70.4	68.8	70.4	68.8
82.5°	49.0	49.6	48.6	48.6	48.6	49.6	49.0	50.2	49.5	50.2	48.6
85°	22.6	22.1	21.0	21.0	21.0	22.1	22.6	22.6	24.2	23.1	23.1
87.5°	6.0	5.6	5.6	5.2	5.6	5.6	6.0	6.0	6.0	6.7	6.8
90°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.0	8.4	9.0
92.5°	16.6	15.8	15.9	15.5	15.9	15.8	16.6	16.9	18.6	20.9	24.4
95°	34.7	32.5	31.6	31.9	31.6	32.5	34.7	38.3	44.5	56.2	73.4
97.5°	76.1	69.2	65.2	62.8	65.2	69.2	76.1	89.5	109.7	140.0	171.1
100°	125.4	113.4	105.3	100.2	105.3	113.4	125.4	148.6	182.5	220.9	255.6
102.5°	213.8	193.3	183.2	176.3	183.2	193.3	213.8	239.1	275.0	303.0	310.9
105°	348.7	331.4	319.3	315.4	319.3	331.4	348.7	366.1	375.3	371.7	340.1
107.5°	411.5	410.6	408.1	403.0	408.1	410.6	411.5	409.3	395.8	366.7	319.0
110°	421.8	427.1	429.7	429.4	429.7	427.1	421.8	409.8	386.8	351.0	300.9



TEST NUMBER: P331377-927

CATALOG NUMBER: SA2XXDIP-C865D330U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	413.8	422.6	427.4	428.9	427.4	422.6	413.8	397.0	370.7	332.4	284.3
115°	392.4	405.3	412.6	415.1	412.6	405.3	392.4	372.6	343.7	307.0	264.0
117.5°	367.0	380.6	388.2	390.4	388.2	380.6	367.0	346.7	319.7	286.5	248.6
120°	350.5	363.6	371.7	374.5	371.7	363.6	350.5	330.8	305.4	275.7	241.0
122.5°	335.4	348.4	355.6	357.9	355.6	348.4	335.4	317.8	294.9	266.7	235.0
125°	316.9	327.5	334.5	336.8	334.5	327.5	316.9	300.6	279.6	255.0	226.2
127.5°	300.3	310.3	316.3	318.1	316.3	310.3	300.3	286.1	266.8	243.6	217.5
130°	290.3	299.8	305.4	307.6	305.4	299.8	290.3	276.6	258.1	236.0	211.9
132.5°	280.0	289.5	294.6	296.7	294.6	289.5	280.0	266.5	249.1	228.8	206.5
135°	263.6	272.9	278.0	279.1	278.0	272.9	263.6	251.6	236.0	217.5	199.0
137.5°	247.8	255.7	260.2	261.8	260.2	255.7	247.8	236.8	223.2	208.5	193.1
140°	236.8	244.1	248.3	249.9	248.3	244.1	236.8	227.8	215.6	202.6	189.2
142.5°	227.4	234.0	237.7	238.1	237.7	234.0	227.4	218.9	208.6	197.5	186.1
145°	214.4	219.2	222.0	222.8	222.0	219.2	214.4	207.7	199.6	190.9	181.6
147.5°	203.7	207.6	209.5	210.0	209.5	207.6	203.7	198.2	192.3	185.5	178.2
150°	197.0	200.4	202.1	202.4	202.1	200.4	197.0	192.8	187.8	182.0	175.8
152.5°	191.7	194.6	195.8	195.9	195.8	194.6	191.7	188.4	184.0	179.0	173.3
155°	184.7	186.7	187.8	187.3	187.8	186.7	184.7	181.6	178.6	174.4	169.9
157.5°	177.8	179.4	179.9	179.9	179.9	179.4	177.8	175.6	173.2	169.7	166.0
160°	173.6	174.9	175.2	175.2	175.2	174.9	173.6	171.6	169.6	166.5	163.4
162.5°	169.8	170.7	171.0	170.7	171.0	170.7	169.8	167.8	166.3	163.7	161.0
165°	163.4	164.6	164.6	164.3	164.6	164.6	163.4	162.3	161.2	159.2	157.3
167.5°	158.1	158.8	158.7	158.4	158.7	158.8	158.1	157.6	156.6	155.3	153.8
170°	154.8	155.6	155.3	154.8	155.3	155.6	154.8	154.5	153.9	152.8	152.0
172.5°	152.1	152.5	152.2	151.9	152.2	152.5	152.1	151.8	151.5	150.6	150.0
175°	148.6	148.9	148.6	148.1	148.6	148.9	148.6	148.6	148.4	148.1	147.8
177.5°	146.5	146.5	146.2	145.8	146.2	146.5	146.5	146.5	146.5	146.2	146.2
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



TEST NUMBER: P331377-927

CATALOG NUMBER: SA2XXDIP-C865D330U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7
2.5°	1314.3	1319.0	1326.1	1333.7	1338.3	1347.1	1349.6	1353.8	1357.6	1366.5	1375.7
5°	1238.4	1245.8	1263.1	1272.6	1285.7	1301.0	1311.0	1321.5	1333.1	1353.0	1371.4
7.5°	1157.1	1169.3	1190.9	1208.6	1227.2	1249.2	1265.0	1285.7	1303.0	1331.2	1358.0
10°	1102.8	1120.1	1139.6	1160.6	1186.9	1210.1	1232.2	1258.4	1279.5	1313.0	1344.7
12.5°	1054.0	1056.7	1084.5	1107.6	1143.6	1172.2	1197.6	1231.5	1252.1	1292.0	1325.2
15°	968.8	984.5	1009.8	1028.2	1070.7	1107.0	1142.8	1178.0	1201.7	1251.0	1294.7
17.5°	897.0	911.5	937.3	967.5	998.1	1034.2	1080.5	1117.5	1149.7	1206.2	1257.7
20°	851.5	869.4	895.7	926.7	953.5	992.9	1032.9	1075.5	1110.2	1173.8	1234.2
22.5°	812.9	827.0	848.2	878.8	908.1	944.2	987.9	1034.3	1070.6	1139.3	1200.6
25°	758.5	770.1	783.7	809.0	842.1	881.5	915.7	966.7	1019.8	1083.9	1158.0
27.5°	709.6	717.7	729.8	752.0	777.7	814.5	852.5	900.9	954.3	1023.9	1102.1
30°	679.7	684.9	697.0	715.4	740.6	769.5	807.9	854.2	908.9	979.3	1057.1
32.5°	653.6	658.5	666.3	683.9	705.8	730.5	765.0	811.3	863.4	932.6	1018.8
35°	614.5	618.1	625.0	639.2	651.3	675.5	704.4	746.4	795.3	861.6	950.9
37.5°	575.5	580.5	584.7	590.7	606.3	622.2	647.3	682.8	730.8	797.6	882.8
40°	549.9	554.1	560.3	563.0	575.6	589.8	610.3	642.9	691.3	752.2	835.3
42.5°	523.8	528.0	531.7	534.8	545.7	558.3	576.6	604.6	647.5	706.8	789.0
45°	488.3	488.9	492.5	498.3	503.6	512.5	525.6	549.9	583.0	638.7	713.3
47.5°	452.3	453.0	453.6	456.1	461.9	470.0	478.8	498.4	528.1	572.5	645.2
50°	428.4	427.4	428.4	430.5	434.2	441.0	451.0	465.2	489.4	530.9	597.7
52.5°	405.3	405.0	404.4	405.3	408.1	412.8	419.9	432.0	453.6	491.8	550.6
55°	370.0	367.4	368.0	365.8	370.6	371.6	376.9	386.9	405.8	432.1	487.3
57.5°	332.6	330.3	328.0	327.4	326.9	329.8	334.0	341.9	356.4	379.4	424.2
60°	308.6	305.9	302.8	301.7	301.7	303.3	305.4	311.2	324.9	345.4	382.1
62.5°	284.2	281.1	279.2	276.5	275.7	277.3	279.3	283.4	293.3	312.5	344.3
65°	246.5	242.9	240.2	239.7	238.7	237.1	238.1	242.3	250.2	265.5	290.7
67.5°	208.8	205.3	204.7	201.6	200.2	200.3	200.2	203.7	208.5	221.7	240.4
70°	183.9	181.3	180.3	177.7	176.7	175.5	174.5	177.7	182.4	193.5	209.8
72.5°	158.8	156.5	154.2	152.0	152.3	151.1	151.0	152.9	156.8	166.9	179.4
75°	122.5	123.0	120.4	117.7	117.2	116.1	116.1	117.7	119.3	127.2	137.2
77.5°	88.8	88.4	86.2	85.4	84.8	83.7	84.8	85.9	86.7	92.0	99.3
80°	67.8	67.8	65.2	65.2	64.6	63.1	64.6	63.6	65.7	71.0	76.2
82.5°	48.5	47.6	47.5	46.7	46.6	45.4	46.2	47.2	48.0	51.7	54.7
85°	23.7	23.7	23.1	22.6	23.1	22.6	23.1	23.7	24.2	25.7	28.4
87.5°	6.9	7.4	7.8	7.8	7.4	7.6	7.8	8.2	8.9	9.0	9.3
90°	9.3	9.5	9.3	7.5	5.6	4.2	3.3	2.8	2.2	1.1	0.3
92.5°	30.7	36.4	35.9	28.0	19.0	12.7	10.1	8.2	7.0	4.9	3.4
95°	96.0	109.7	97.1	64.6	40.3	27.4	20.7	16.2	13.7	10.9	9.8
97.5°	196.5	187.3	141.1	87.1	53.2	37.0	29.4	24.2	20.4	17.4	15.9
100°	261.4	221.1	152.3	91.8	57.7	42.9	35.0	29.4	24.9	22.4	21.5
102.5°	285.6	222.2	148.0	92.1	61.7	48.0	40.2	34.3	29.9	27.3	26.7
105°	281.9	207.4	139.7	93.5	68.6	55.5	47.6	41.4	37.2	35.3	34.1
107.5°	257.3	191.5	135.5	97.4	75.7	62.9	55.0	48.9	45.0	43.1	42.2
110°	241.9	183.9	134.7	100.4	80.3	68.0	59.9	54.0	50.4	48.7	47.6



TEST NUMBER: P331377-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	231.1	179.0	134.8	103.9	84.8	73.0	64.6	58.9	55.5	53.6	52.5
115°	217.8	173.6	136.0	108.8	91.8	79.8	72.2	66.6	63.3	61.6	60.2
117.5°	209.4	170.9	138.1	114.2	98.2	87.1	79.3	73.9	70.9	69.2	68.1
120°	204.9	169.4	139.4	117.9	102.7	91.8	84.0	78.3	75.9	74.1	73.0
122.5°	201.1	168.4	140.9	121.0	106.9	96.7	88.6	83.1	80.3	78.7	77.8
125°	195.7	166.8	143.3	126.0	113.4	103.3	95.5	89.8	86.5	84.8	84.0
127.5°	190.6	165.9	145.7	130.6	119.3	109.5	101.4	96.1	92.4	90.0	88.9
130°	187.3	165.4	147.5	133.5	122.9	113.0	105.3	99.7	95.7	92.9	91.8
132.5°	184.6	165.2	149.3	136.4	126.0	116.7	108.8	103.0	98.9	95.9	94.5
135°	180.8	164.9	151.5	140.2	130.5	121.4	113.7	107.2	103.0	99.7	98.5
137.5°	178.2	164.8	153.4	143.1	134.0	125.2	117.9	111.5	107.0	103.7	102.3
140°	176.6	164.6	154.2	144.7	136.0	127.6	120.3	114.2	109.7	106.4	105.3
142.5°	175.1	164.6	154.9	146.1	137.6	129.4	122.6	116.7	112.2	109.1	108.1
145°	173.0	164.0	155.6	147.8	140.0	132.4	126.3	120.6	116.5	113.7	112.5
147.5°	170.9	163.0	155.8	148.8	141.9	134.8	129.3	124.6	120.7	118.0	117.2
150°	169.1	162.3	155.6	149.2	142.8	136.3	131.3	127.1	123.4	121.2	120.3
152.5°	167.5	161.2	155.2	149.4	143.6	137.8	133.3	129.3	126.1	123.9	123.5
155°	164.6	159.2	154.5	149.7	145.0	140.2	136.0	132.9	129.8	128.2	127.9
157.5°	161.8	157.2	153.2	149.7	145.9	141.9	138.4	135.9	133.2	131.9	131.6
160°	159.8	155.9	152.6	149.7	146.4	143.1	140.0	137.7	135.5	134.4	134.0
162.5°	158.0	154.8	151.9	149.5	146.6	143.7	141.3	139.3	137.5	136.3	136.6
165°	155.0	152.6	150.6	148.9	146.9	144.4	142.8	141.3	139.7	139.1	139.4
167.5°	152.2	150.6	149.3	148.5	146.9	145.0	144.0	143.0	141.9	141.4	141.7
170°	150.6	149.5	148.6	148.1	146.6	145.3	144.4	143.9	143.1	142.8	143.3
172.5°	149.0	148.1	147.7	147.4	146.5	145.5	144.9	144.6	143.7	143.9	144.2
175°	146.9	146.6	146.4	146.6	146.1	145.5	145.3	145.3	144.7	145.0	145.3
177.5°	145.8	145.5	145.8	146.2	145.8	145.5	145.5	145.5	145.1	145.3	145.8
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



TEST NUMBER: P331377-927

CATALOG NUMBER: SA2XXDIP-C865D330U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7
2.5°	1374.9	1377.0	1383.7	1390.4	1398.0	1400.1	1403.5	1400.6	1399.7	1407.7	1413.6
5°	1378.8	1388.2	1406.7	1423.5	1437.7	1447.6	1458.2	1462.4	1470.2	1481.3	1494.9
7.5°	1374.4	1392.7	1421.7	1446.2	1472.9	1492.1	1507.1	1520.0	1535.6	1556.5	1579.3
10°	1369.3	1394.0	1429.3	1459.2	1491.8	1516.5	1537.0	1557.0	1580.1	1609.0	1638.9
12.5°	1360.1	1389.4	1433.5	1468.9	1510.7	1535.0	1562.7	1605.8	1630.5	1670.9	1713.0
15°	1341.5	1374.0	1435.5	1479.2	1526.5	1572.7	1623.7	1664.8	1705.7	1729.4	1788.8
17.5°	1313.8	1361.7	1429.7	1480.7	1540.8	1613.7	1671.0	1717.4	1764.7	1803.1	1832.9
20°	1291.5	1343.5	1421.3	1482.3	1553.8	1632.1	1697.9	1745.2	1786.1	1818.2	1836.6
22.5°	1263.4	1328.8	1404.5	1476.0	1567.3	1644.7	1713.8	1751.0	1785.3	1800.9	1808.0
25°	1219.0	1297.8	1383.5	1470.8	1573.8	1655.8	1718.9	1741.5	1751.4	1736.2	1711.0
27.5°	1171.2	1259.0	1359.2	1460.9	1569.8	1648.6	1693.8	1690.3	1673.3	1624.1	1584.6
30°	1135.4	1232.2	1339.9	1450.8	1560.1	1636.9	1663.2	1636.9	1598.5	1543.3	1487.1
32.5°	1098.0	1198.1	1319.3	1436.5	1542.5	1610.0	1615.7	1570.4	1511.0	1448.3	1378.2
35°	1041.3	1149.6	1280.5	1404.5	1504.9	1547.5	1522.3	1442.4	1372.0	1286.3	1190.6
37.5°	977.3	1096.9	1228.1	1357.7	1448.7	1459.8	1397.2	1313.0	1213.7	1113.0	1000.4
40°	929.4	1056.1	1191.1	1322.0	1402.4	1390.8	1311.0	1218.5	1100.2	977.2	872.6
42.5°	886.5	1013.1	1150.7	1279.1	1343.5	1311.8	1218.5	1104.9	977.8	862.0	766.2
45°	812.1	942.5	1083.4	1207.4	1244.2	1186.9	1063.4	937.2	812.1	715.4	639.7
47.5°	740.0	868.9	1008.4	1117.5	1130.4	1053.4	918.4	788.6	681.0	602.3	548.9
50°	687.1	816.3	954.6	1051.9	1047.6	954.6	815.8	692.3	602.4	538.8	503.0
52.5°	639.5	761.7	894.5	982.9	960.6	859.1	726.7	617.0	543.1	493.4	461.0
55°	565.6	678.6	804.8	875.8	834.7	722.2	610.3	522.0	467.3	430.0	404.7
57.5°	492.2	598.2	706.2	749.9	704.6	600.7	507.4	443.3	402.2	374.5	358.1
60°	446.8	539.3	635.5	673.4	619.2	526.7	453.1	395.9	362.7	340.1	325.3
62.5°	401.4	484.3	575.0	595.6	546.1	467.9	402.7	355.1	327.8	307.7	293.8
65°	339.6	407.3	476.3	489.9	444.2	383.7	332.2	301.2	277.0	262.3	251.3
67.5°	278.5	333.0	381.8	392.8	352.7	310.8	273.5	246.5	230.1	217.9	208.6
70°	242.3	285.4	325.3	334.3	302.2	264.9	236.5	215.0	200.3	189.7	180.9
72.5°	204.1	240.0	273.2	279.2	253.0	224.6	201.2	184.3	171.3	164.5	156.0
75°	156.1	177.1	202.9	204.5	187.1	169.8	151.9	140.9	134.0	125.6	121.4
77.5°	110.2	126.7	141.4	144.3	134.0	122.2	112.2	103.5	97.7	93.8	89.9
80°	84.1	97.3	103.5	107.3	99.9	91.5	85.7	79.9	76.2	73.6	71.0
82.5°	60.1	68.2	74.1	76.9	73.0	67.9	62.1	58.9	56.0	53.8	52.9
85°	30.5	34.1	37.9	38.9	37.9	35.7	32.6	32.6	31.0	30.5	30.5
87.5°	10.8	12.7	12.8	14.1	13.5	13.7	14.1	14.0	13.7	13.2	12.8
90°	1.1	2.2	2.8	3.3	4.2	5.6	7.5	9.3	9.5	9.3	9.0
92.5°	4.9	7.0	8.2	10.1	12.7	19.0	28.0	35.9	36.4	30.7	24.4
95°	10.9	13.7	16.2	20.7	27.4	40.3	64.6	97.1	109.7	96.0	73.4
97.5°	17.4	20.4	24.2	29.4	37.0	53.2	87.1	141.1	187.3	196.5	171.1
100°	22.4	24.9	29.4	35.0	42.9	57.7	91.8	152.3	221.1	261.4	255.6
102.5°	27.3	29.9	34.3	40.2	48.0	61.7	92.1	148.0	222.2	285.6	310.9
105°	35.3	37.2	41.4	47.6	55.5	68.6	93.5	139.7	207.4	281.9	340.1
107.5°	43.1	45.0	48.9	55.0	62.9	75.7	97.4	135.5	191.5	257.3	319.0
110°	48.7	50.4	54.0	59.9	68.0	80.3	100.4	134.7	183.9	241.9	300.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	53.6	55.5	58.9	64.6	73.0	84.8	103.9	134.8	179.0	231.1	284.3
115°	61.6	63.3	66.6	72.2	79.8	91.8	108.8	136.0	173.6	217.8	264.0
117.5°	69.2	70.9	73.9	79.3	87.1	98.2	114.2	138.1	170.9	209.4	248.6
120°	74.1	75.9	78.3	84.0	91.8	102.7	117.9	139.4	169.4	204.9	241.0
122.5°	78.7	80.3	83.1	88.6	96.7	106.9	121.0	140.9	168.4	201.1	235.0
125°	84.8	86.5	89.8	95.5	103.3	113.4	126.0	143.3	166.8	195.7	226.2
127.5°	90.0	92.4	96.1	101.4	109.5	119.3	130.6	145.7	165.9	190.6	217.5
130°	92.9	95.7	99.7	105.3	113.0	122.9	133.5	147.5	165.4	187.3	211.9
132.5°	95.9	98.9	103.0	108.8	116.7	126.0	136.4	149.3	165.2	184.6	206.5
135°	99.7	103.0	107.2	113.7	121.4	130.5	140.2	151.5	164.9	180.8	199.0
137.5°	103.7	107.0	111.5	117.9	125.2	134.0	143.1	153.4	164.8	178.2	193.1
140°	106.4	109.7	114.2	120.3	127.6	136.0	144.7	154.2	164.6	176.6	189.2
142.5°	109.1	112.2	116.7	122.6	129.4	137.6	146.1	154.9	164.6	175.1	186.1
145°	113.7	116.5	120.6	126.3	132.4	140.0	147.8	155.6	164.0	173.0	181.6
147.5°	118.0	120.7	124.6	129.3	134.8	141.9	148.8	155.8	163.0	170.9	178.2
150°	121.2	123.4	127.1	131.3	136.3	142.8	149.2	155.6	162.3	169.1	175.8
152.5°	123.9	126.1	129.3	133.3	137.8	143.6	149.4	155.2	161.2	167.5	173.3
155°	128.2	129.8	132.9	136.0	140.2	145.0	149.7	154.5	159.2	164.6	169.9
157.5°	131.9	133.2	135.9	138.4	141.9	145.9	149.7	153.2	157.2	161.8	166.0
160°	134.4	135.5	137.7	140.0	143.1	146.4	149.7	152.6	155.9	159.8	163.4
162.5°	136.3	137.5	139.3	141.3	143.7	146.6	149.5	151.9	154.8	158.0	161.0
165°	139.1	139.7	141.3	142.8	144.4	146.9	148.9	150.6	152.6	155.0	157.3
167.5°	141.4	141.9	143.0	144.0	145.0	146.9	148.5	149.3	150.6	152.2	153.8
170°	142.8	143.1	143.9	144.4	145.3	146.6	148.1	148.6	149.5	150.6	152.0
172.5°	143.9	143.7	144.6	144.9	145.5	146.5	147.4	147.7	148.1	149.0	150.0
175°	145.0	144.7	145.3	145.3	145.5	146.1	146.6	146.4	146.6	146.9	147.8
177.5°	145.3	145.1	145.5	145.5	145.5	145.8	146.2	145.8	145.5	145.8	146.2
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7	1367.7
2.5°	1418.6	1424.5	1424.5	1425.4	1432.1	1431.2	1430.8
5°	1509.7	1518.6	1519.6	1529.1	1535.4	1533.3	1527.6
7.5°	1595.5	1612.2	1624.8	1631.8	1640.1	1645.3	1643.0
10°	1663.7	1687.8	1702.6	1712.5	1724.7	1733.6	1730.4
12.5°	1725.5	1754.3	1774.5	1791.6	1793.2	1804.7	1796.9
15°	1821.9	1852.4	1855.5	1868.1	1878.2	1877.1	1877.6
17.5°	1853.8	1863.5	1865.5	1865.8	1866.0	1862.3	1854.3
20°	1842.4	1838.7	1829.8	1823.0	1810.8	1809.3	1798.8
22.5°	1788.6	1776.9	1754.5	1739.7	1720.9	1715.9	1713.0
25°	1682.6	1656.8	1621.1	1586.9	1577.5	1559.1	1564.3
27.5°	1537.2	1497.1	1458.3	1430.6	1405.5	1377.9	1385.8
30°	1435.0	1389.8	1335.1	1293.1	1266.3	1240.0	1235.2
32.5°	1313.0	1246.8	1185.9	1148.8	1107.8	1091.2	1072.9
35°	1102.8	1038.2	977.7	925.7	895.7	872.6	851.5
37.5°	913.7	839.2	790.4	748.3	726.7	713.4	716.8
40°	796.4	731.2	695.5	663.4	643.4	633.9	636.0
42.5°	701.3	652.5	623.1	601.1	587.0	581.8	580.5
45°	593.4	566.1	541.9	529.3	522.5	516.7	513.0
47.5°	519.8	497.6	483.9	476.4	470.5	464.5	464.5
50°	475.7	461.0	451.5	443.6	438.9	434.7	438.4
52.5°	442.0	428.6	419.1	412.1	410.4	406.5	406.5
55°	392.1	381.6	374.8	368.4	365.4	363.2	360.6
57.5°	346.7	336.8	330.4	326.5	320.4	318.3	317.5
60°	314.3	306.4	300.2	294.9	292.2	288.0	288.0
62.5°	284.5	276.6	270.7	266.7	262.4	260.7	261.2
65°	241.3	235.0	229.2	225.0	223.9	220.8	221.8
67.5°	201.5	197.3	191.2	188.9	187.0	185.2	183.9
70°	175.1	170.9	167.7	164.5	163.0	163.0	163.0
72.5°	152.7	147.7	145.8	141.8	142.8	141.1	139.4
75°	118.3	115.1	113.5	111.9	109.3	109.3	109.3
77.5°	87.1	86.1	84.2	82.5	81.9	81.4	81.6
80°	67.3	66.8	65.7	65.7	64.6	64.2	63.1
82.5°	51.7	50.4	49.7	49.3	49.1	49.0	48.8
85°	29.5	28.4	28.4	28.9	27.9	27.9	28.4
87.5°	13.1	13.2	12.8	12.8	13.2	12.8	12.8
90°	8.4	9.0	9.3	9.3	9.3	9.3	9.3
92.5°	20.9	18.6	16.9	16.6	15.8	15.9	15.5
95°	56.2	44.5	38.3	34.7	32.5	31.6	31.9
97.5°	140.0	109.7	89.5	76.1	69.2	65.2	62.8
100°	220.9	182.5	148.6	125.4	113.4	105.3	100.2
102.5°	303.0	275.0	239.1	213.8	193.3	183.2	176.3
105°	371.7	375.3	366.1	348.7	331.4	319.3	315.4
107.5°	366.7	395.8	409.3	411.5	410.6	408.1	403.0
110°	351.0	386.8	409.8	421.8	427.1	429.7	429.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	332.4	370.7	397.0	413.8	422.6	427.4	428.9
115°	307.0	343.7	372.6	392.4	405.3	412.6	415.1
117.5°	286.5	319.7	346.7	367.0	380.6	388.2	390.4
120°	275.7	305.4	330.8	350.5	363.6	371.7	374.5
122.5°	266.7	294.9	317.8	335.4	348.4	355.6	357.9
125°	255.0	279.6	300.6	316.9	327.5	334.5	336.8
127.5°	243.6	266.8	286.1	300.3	310.3	316.3	318.1
130°	236.0	258.1	276.6	290.3	299.8	305.4	307.6
132.5°	228.8	249.1	266.5	280.0	289.5	294.6	296.7
135°	217.5	236.0	251.6	263.6	272.9	278.0	279.1
137.5°	208.5	223.2	236.8	247.8	255.7	260.2	261.8
140°	202.6	215.6	227.8	236.8	244.1	248.3	249.9
142.5°	197.5	208.6	218.9	227.4	234.0	237.7	238.1
145°	190.9	199.6	207.7	214.4	219.2	222.0	222.8
147.5°	185.5	192.3	198.2	203.7	207.6	209.5	210.0
150°	182.0	187.8	192.8	197.0	200.4	202.1	202.4
152.5°	179.0	184.0	188.4	191.7	194.6	195.8	195.9
155°	174.4	178.6	181.6	184.7	186.7	187.8	187.3
157.5°	169.7	173.2	175.6	177.8	179.4	179.9	179.9
160°	166.5	169.6	171.6	173.6	174.9	175.2	175.2
162.5°	163.7	166.3	167.8	169.8	170.7	171.0	170.7
165°	159.2	161.2	162.3	163.4	164.6	164.6	164.3
167.5°	155.3	156.6	157.6	158.1	158.8	158.7	158.4
170°	152.8	153.9	154.5	154.8	155.6	155.3	154.8
172.5°	150.6	151.5	151.8	152.1	152.5	152.2	151.9
175°	148.1	148.4	148.6	148.6	148.9	148.6	148.1
177.5°	146.2	146.5	146.5	146.5	146.5	146.2	145.8
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5

(END OF REPORT)