

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: P331375-930

Luminaire Tested: **SA2XXDIP-C865D330U930-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331375-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C865D330U930-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

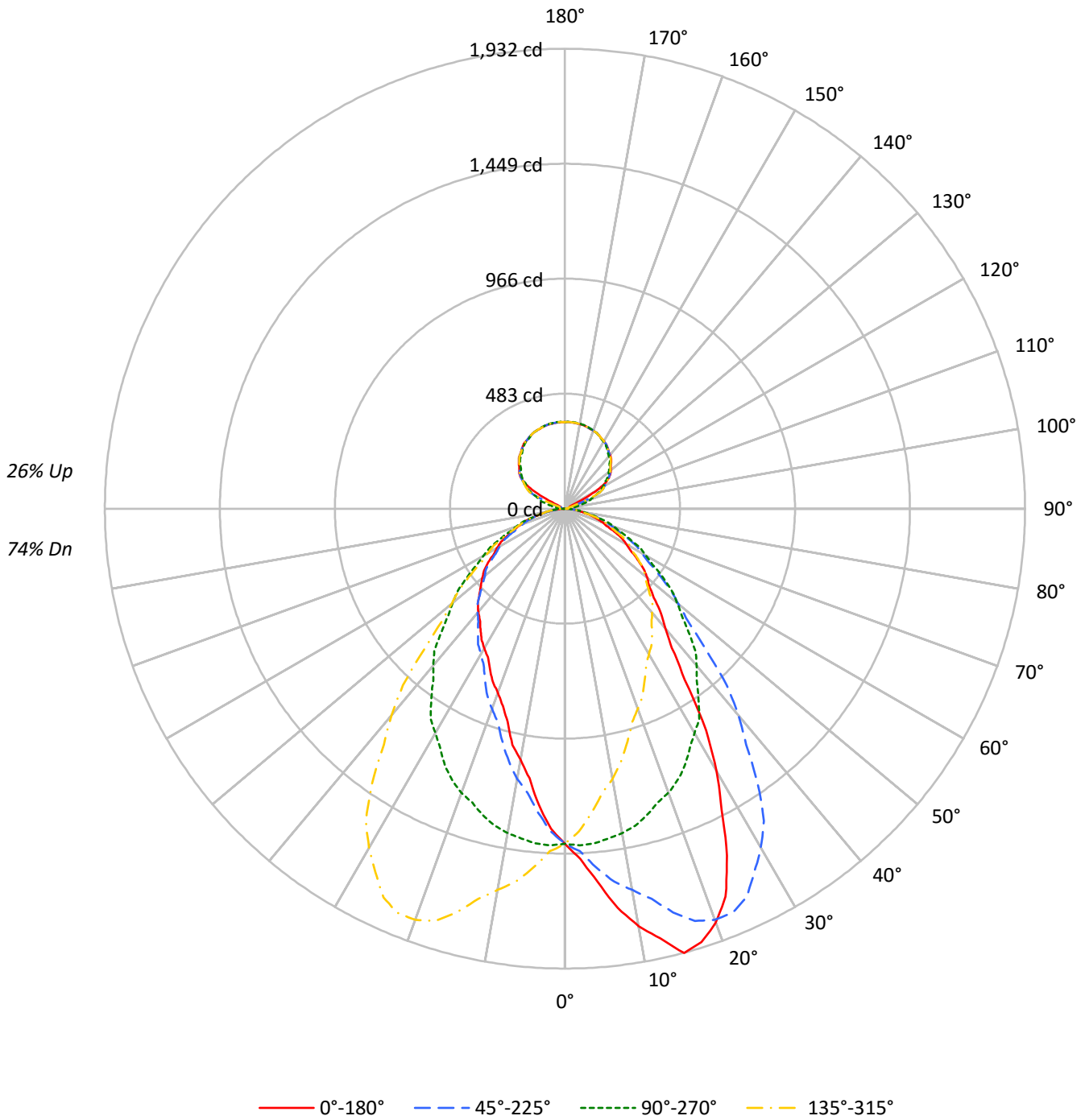
Lumens per Lamp: N/A
Luminaire Lumens: 4174.1 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	74				
1	104	100	96	93	99	95	92	89	86	84	81	78	76	74	71	69	68	64				
2	95	88	82	77	90	84	79	74	76	72	69	69	66	63	63	60	58	55				
3	87	78	71	65	83	75	68	63	68	63	59	62	58	54	56	53	50	47				
4	80	70	62	56	76	67	60	54	61	55	51	56	51	47	51	47	44	41				
5	74	63	55	49	70	60	53	47	55	49	44	51	46	42	46	42	39	36				
6	69	57	49	43	65	54	47	42	50	44	39	46	41	37	42	38	35	32				
7	64	52	44	38	61	50	42	37	46	40	35	42	37	33	39	34	31	29				
8	60	47	39	34	57	45	38	33	42	36	31	39	34	30	36	31	28	26				
9	56	43	36	31	53	42	35	30	39	33	28	36	31	27	33	29	26	24				
10	52	40	33	28	50	39	32	27	36	30	26	33	28	25	31	27	23	22				

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	3.2
10°-20°	389.7	9.3
20°-30°	565.6	13.6
30°-40°	596.9	14.3
40°-50°	528.5	12.7
50°-60°	421.7	10.1
60°-70°	286.7	6.9
70°-80°	147.0	3.5
80°-90°	36.3	0.9
90°-100°	12.1	0.3
100°-110°	44.6	1.1
110°-120°	119.1	2.9
120°-130°	196.6	4.7
130°-140°	209.1	5.0
140°-150°	194.4	4.7
150°-160°	156.3	3.7
160°-170°	100.7	2.4
170°-180°	34.7	0.8
0°-30°	1089.4	26.1
0°-40°	1686.3	40.4
0°-60°	2636.5	63.2
0°-90°	3106.5	74.4
90°-120°	175.8	4.2
90°-150°	776.0	18.6
90°-180°	1068.0	25.6
0°-180°	4174.1	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°	7	0	7	0	7	5
95°	11	17	11	17	11	11
105°	20	80	20	80	20	21
115°	22	152	22	152	22	54
125°	225	214	225	214	225	195
135°	274	265	274	265	274	211
145°	312	308	312	308	312	195
155°	339	339	339	339	339	156
165°	356	357	356	357	356	101
175°	363	365	363	365	363	35
180°	364	364	364	364	364	



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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°	12.6	12.6	13.0	12.6	12.6	13.0	12.9	12.4	12.8	13.2	13.5
90°	7.1	7.0	6.8	6.8	6.7	6.4	6.1	5.9	5.5	5.3	4.8
92.5°	7.1	7.0	7.0	6.9	6.8	6.7	6.6	6.4	6.3	6.1	5.9
95°	11.3	11.4	11.4	11.5	11.6	11.4	11.2	10.8	10.6	10.3	9.9
97.5°	15.2	15.1	15.0	14.9	14.8	14.7	14.4	14.3	14.0	13.8	12.8
100°	17.7	17.5	17.4	17.3	17.2	16.9	16.5	16.0	15.5	15.0	14.0
102.5°	18.9	18.8	18.6	18.4	18.3	17.9	17.3	16.6	16.1	15.4	23.8
105°	20.1	19.8	19.6	19.3	19.1	18.7	18.0	17.4	16.7	16.1	32.0
107.5°	20.6	20.4	20.1	19.9	19.6	19.9	20.5	21.2	21.9	22.5	41.7
110°	20.8	20.6	20.4	20.1	19.9	22.7	28.5	34.4	40.3	46.1	63.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	21.0	20.9	20.6	20.5	20.3	30.9	52.3	73.6	95.0	116.3	120.5
115°	21.6	25.8	30.1	34.2	38.5	54.1	81.3	108.4	135.5	162.7	161.2
117.5°	88.3	102.2	116.0	129.9	143.7	153.9	160.5	167.1	173.6	180.2	179.1
120°	160.8	168.7	176.6	184.5	192.4	196.0	195.3	194.6	194.0	193.2	192.2
122.5°	200.6	202.2	203.7	205.3	206.8	207.3	206.9	206.5	206.1	205.7	204.6
125°	225.3	225.2	225.0	224.9	224.7	224.4	224.0	223.6	223.1	222.7	221.6
127.5°	241.0	240.9	240.9	240.9	240.8	240.5	239.9	239.4	238.7	238.1	237.3
130°	250.7	250.8	250.8	250.9	250.9	250.6	250.0	249.3	248.7	248.1	247.4
132.5°	260.2	260.2	260.3	260.3	260.4	260.2	259.6	259.1	258.5	258.0	257.3
135°	273.9	274.0	274.1	274.3	274.3	274.1	273.5	273.0	272.4	271.8	271.3
137.5°	286.4	286.6	286.8	287.0	287.1	287.0	286.4	285.8	285.3	284.7	284.1
140°	294.2	294.5	294.8	295.1	295.4	295.2	294.7	294.2	293.7	293.1	292.5
142.5°	301.7	302.1	302.4	302.6	303.0	302.9	302.4	301.9	301.4	300.9	300.2
145°	312.3	312.7	313.0	313.2	313.6	313.5	313.1	312.7	312.3	311.9	310.9
147.5°	321.7	322.0	322.2	322.5	322.7	322.7	322.4	322.0	321.7	321.5	320.5
150°	327.4	327.7	328.0	328.3	328.6	328.6	328.2	327.8	327.5	327.2	326.2
152.5°	332.2	332.6	333.0	333.4	333.8	333.8	333.5	333.1	332.7	332.4	331.5
155°	339.0	339.5	340.0	340.4	340.9	341.0	340.6	340.2	339.9	339.5	338.8
157.5°	345.2	345.6	346.1	346.5	347.0	347.0	346.7	346.3	345.8	345.4	345.0
160°	348.8	349.2	349.6	350.0	350.4	350.4	350.1	349.8	349.4	349.0	348.7
162.5°	351.7	352.2	352.7	353.2	353.8	353.8	353.4	352.9	352.6	352.2	351.9
165°	356.1	356.5	356.9	357.3	357.8	357.8	357.3	356.9	356.5	356.1	356.0
167.5°	358.9	359.5	360.0	360.5	361.0	361.1	360.7	360.3	359.9	359.5	359.3
170°	360.6	361.2	361.7	362.2	362.7	362.8	362.4	362.0	361.6	361.2	361.0
172.5°	361.9	362.4	363.0	363.5	364.0	364.0	363.6	363.2	362.8	362.4	362.3
175°	363.0	363.5	364.2	364.8	365.3	365.4	365.0	364.6	364.2	363.8	363.7
177.5°	363.7	364.1	364.5	364.9	365.3	365.4	365.1	364.8	364.4	364.1	364.0
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



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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°	13.9	13.8	13.7	14.4	13.0	12.9	11.0	9.5	9.3	9.0	8.2
90°	4.3	3.8	3.4	2.9	2.2	1.5	0.9	0.2	0.9	1.5	2.2
92.5°	5.6	5.4	5.2	5.1	5.1	5.2	5.3	5.3	5.3	5.2	5.1
95°	9.5	9.0	8.6	9.4	11.3	13.3	15.2	17.1	15.2	13.3	11.3
97.5°	11.8	10.9	9.9	12.2	17.7	23.1	28.5	34.0	28.5	23.1	17.7
100°	13.0	12.1	11.0	14.6	22.6	30.6	38.6	46.6	38.6	30.6	22.6
102.5°	32.1	40.4	48.8	53.8	55.5	57.2	58.9	60.6	58.9	57.2	55.5
105°	48.1	64.1	80.1	87.2	85.4	83.6	81.9	80.1	81.9	83.6	85.4
107.5°	60.9	80.1	99.2	108.1	106.7	105.3	103.9	102.4	103.9	105.3	106.7
110°	80.0	96.9	113.8	121.7	120.5	119.3	118.0	116.8	118.0	119.3	120.5



TEST NUMBER: P331375-930

CATALOG NUMBER: SA2XXDIP-C865D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	124.7	128.9	133.1	134.6	133.5	132.5	131.3	130.3	131.3	132.5	133.5
115°	159.7	158.2	156.8	155.6	154.6	153.6	152.5	151.6	152.5	153.6	154.6
117.5°	178.1	177.2	176.1	175.0	174.0	172.8	171.7	170.6	171.7	172.8	174.0
120°	191.1	190.0	189.0	188.0	187.2	186.3	185.4	184.5	185.4	186.3	187.2
122.5°	203.3	202.2	201.1	200.1	199.1	198.2	197.3	196.3	197.3	198.2	199.1
125°	220.5	219.4	218.3	217.4	216.6	215.8	215.1	214.3	215.1	215.8	216.6
127.5°	236.5	235.6	234.8	234.0	233.2	232.3	231.5	230.6	231.5	232.3	233.2
130°	246.8	246.1	245.5	244.7	243.8	242.8	241.9	240.9	241.9	242.8	243.8
132.5°	256.7	256.0	255.4	254.7	253.9	253.1	252.3	251.5	252.3	253.1	253.9
135°	270.8	270.2	269.7	269.0	268.0	267.1	266.1	265.2	266.1	267.1	268.0
137.5°	283.5	282.9	282.3	281.7	281.0	280.4	279.7	279.1	279.7	280.4	281.0
140°	291.9	291.2	290.6	290.0	289.5	289.0	288.6	288.1	288.6	289.0	289.5
142.5°	299.5	298.7	298.0	297.4	297.0	296.5	296.1	295.7	296.1	296.5	297.0
145°	309.9	308.8	307.9	307.4	307.4	307.5	307.6	307.6	307.6	307.5	307.4
147.5°	319.5	318.5	317.5	317.2	317.3	317.6	317.8	318.0	317.8	317.6	317.3
150°	325.3	324.3	323.4	323.1	323.5	323.9	324.3	324.7	324.3	323.9	323.5
152.5°	330.6	329.7	328.8	328.6	329.1	329.5	330.0	330.4	330.0	329.5	329.1
155°	338.1	337.5	336.7	336.6	337.1	337.7	338.2	338.8	338.2	337.7	337.1
157.5°	344.5	344.0	343.5	343.4	343.9	344.3	344.8	345.2	344.8	344.3	343.9
160°	348.3	348.0	347.6	347.6	348.0	348.3	348.7	349.0	348.7	348.3	348.0
162.5°	351.6	351.2	351.0	351.0	351.3	351.7	352.0	352.4	352.0	351.7	351.3
165°	355.8	355.6	355.5	355.6	355.9	356.2	356.6	356.9	356.6	356.2	355.9
167.5°	359.1	359.0	358.8	358.9	359.2	359.6	360.0	360.3	360.0	359.6	359.2
170°	360.9	360.8	360.7	360.8	361.2	361.5	361.8	362.2	361.8	361.5	361.2
172.5°	362.2	362.1	361.9	362.1	362.4	362.7	363.1	363.5	363.1	362.7	362.4
175°	363.5	363.5	363.3	363.5	363.9	364.3	364.7	365.1	364.7	364.3	363.9
177.5°	364.0	363.9	363.9	364.0	364.4	364.7	365.0	365.3	365.0	364.7	364.4
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331375-930

CATALOG NUMBER: SA2XXDIP-C865D330U930-4F0-1E-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°	7.9	7.6	7.3	7.3	7.0	6.7	6.3	6.4	6.4	5.6	5.6
90°	2.9	3.4	3.8	4.3	4.8	5.3	5.5	5.9	6.1	6.4	6.7
92.5°	5.1	5.2	5.4	5.6	5.9	6.1	6.3	6.4	6.6	6.7	6.8
95°	9.4	8.6	9.0	9.5	9.9	10.3	10.6	10.8	11.2	11.4	11.6
97.5°	12.2	9.9	10.9	11.8	12.8	13.8	14.0	14.3	14.4	14.7	14.8
100°	14.6	11.0	12.1	13.0	14.0	15.0	15.5	16.0	16.5	16.9	17.2
102.5°	53.8	48.8	40.4	32.1	23.8	15.4	16.1	16.6	17.3	17.9	18.3
105°	87.2	80.1	64.1	48.1	32.0	16.1	16.7	17.4	18.0	18.7	19.1
107.5°	108.1	99.2	80.1	60.9	41.7	22.5	21.9	21.2	20.5	19.9	19.6
110°	121.7	113.8	96.9	80.0	63.0	46.1	40.3	34.4	28.5	22.7	19.9



TEST NUMBER: P331375-930

CATALOG NUMBER: SA2XXDIP-C865D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	134.6	133.1	128.9	124.7	120.5	116.3	95.0	73.6	52.3	30.9	20.3
115°	155.6	156.8	158.2	159.7	161.2	162.7	135.5	108.4	81.3	54.1	38.5
117.5°	175.0	176.1	177.2	178.1	179.1	180.2	173.6	167.1	160.5	153.9	143.7
120°	188.0	189.0	190.0	191.1	192.2	193.2	194.0	194.6	195.3	196.0	192.4
122.5°	200.1	201.1	202.2	203.3	204.6	205.7	206.1	206.5	206.9	207.3	206.8
125°	217.4	218.3	219.4	220.5	221.6	222.7	223.1	223.6	224.0	224.4	224.7
127.5°	234.0	234.8	235.6	236.5	237.3	238.1	238.7	239.4	239.9	240.5	240.8
130°	244.7	245.5	246.1	246.8	247.4	248.1	248.7	249.3	250.0	250.6	250.9
132.5°	254.7	255.4	256.0	256.7	257.3	258.0	258.5	259.1	259.6	260.2	260.4
135°	269.0	269.7	270.2	270.8	271.3	271.8	272.4	273.0	273.5	274.1	274.3
137.5°	281.7	282.3	282.9	283.5	284.1	284.7	285.3	285.8	286.4	287.0	287.1
140°	290.0	290.6	291.2	291.9	292.5	293.1	293.7	294.2	294.7	295.2	295.4
142.5°	297.4	298.0	298.7	299.5	300.2	300.9	301.4	301.9	302.4	302.9	303.0
145°	307.4	307.9	308.8	309.9	310.9	311.9	312.3	312.7	313.1	313.5	313.6
147.5°	317.2	317.5	318.5	319.5	320.5	321.5	321.7	322.0	322.4	322.7	322.7
150°	323.1	323.4	324.3	325.3	326.2	327.2	327.5	327.8	328.2	328.6	328.6
152.5°	328.6	328.8	329.7	330.6	331.5	332.4	332.7	333.1	333.5	333.8	333.8
155°	336.6	336.7	337.5	338.1	338.8	339.5	339.9	340.2	340.6	341.0	340.9
157.5°	343.4	343.5	344.0	344.5	345.0	345.4	345.8	346.3	346.7	347.0	347.0
160°	347.6	347.6	348.0	348.3	348.7	349.0	349.4	349.8	350.1	350.4	350.4
162.5°	351.0	351.0	351.2	351.6	351.9	352.2	352.6	352.9	353.4	353.8	353.8
165°	355.6	355.5	355.6	355.8	356.0	356.1	356.5	356.9	357.3	357.8	357.8
167.5°	358.9	358.8	359.0	359.1	359.3	359.5	359.9	360.3	360.7	361.1	361.0
170°	360.8	360.7	360.8	360.9	361.0	361.2	361.6	362.0	362.4	362.8	362.7
172.5°	362.1	361.9	362.1	362.2	362.3	362.4	362.8	363.2	363.6	364.0	364.0
175°	363.5	363.3	363.5	363.5	363.7	363.8	364.2	364.6	365.0	365.4	365.3
177.5°	364.0	363.9	363.9	364.0	364.0	364.1	364.4	364.8	365.1	365.4	365.3
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331375-930

CATALOG NUMBER: SA2XXDIP-C865D330U930-4F0-1E-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°	5.7	5.3	5.3	4.9	5.3	5.3	5.7	5.6	5.6	6.4	6.4
90°	6.8	6.8	7.0	7.1	7.0	6.8	6.8	6.7	6.4	6.1	5.9
92.5°	6.9	7.0	7.0	7.1	7.0	7.0	6.9	6.8	6.7	6.6	6.4
95°	11.5	11.4	11.4	11.3	11.4	11.4	11.5	11.6	11.4	11.2	10.8
97.5°	14.9	15.0	15.1	15.2	15.1	15.0	14.9	14.8	14.7	14.4	14.3
100°	17.3	17.4	17.5	17.7	17.5	17.4	17.3	17.2	16.9	16.5	16.0
102.5°	18.4	18.6	18.8	18.9	18.8	18.6	18.4	18.3	17.9	17.3	16.6
105°	19.3	19.6	19.8	20.1	19.8	19.6	19.3	19.1	18.7	18.0	17.4
107.5°	19.9	20.1	20.4	20.6	20.4	20.1	19.9	19.6	19.9	20.5	21.2
110°	20.1	20.4	20.6	20.8	20.6	20.4	20.1	19.9	22.7	28.5	34.4



TEST NUMBER: P331375-930

CATALOG NUMBER: SA2XXDIP-C865D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	20.5	20.6	20.9	21.0	20.9	20.6	20.5	20.3	30.9	52.3	73.6
115°	34.2	30.1	25.8	21.6	25.8	30.1	34.2	38.5	54.1	81.3	108.4
117.5°	129.9	116.0	102.2	88.3	102.2	116.0	129.9	143.7	153.9	160.5	167.1
120°	184.5	176.6	168.7	160.8	168.7	176.6	184.5	192.4	196.0	195.3	194.6
122.5°	205.3	203.7	202.2	200.6	202.2	203.7	205.3	206.8	207.3	206.9	206.5
125°	224.9	225.0	225.2	225.3	225.2	225.0	224.9	224.7	224.4	224.0	223.6
127.5°	240.9	240.9	240.9	241.0	240.9	240.9	240.9	240.8	240.5	239.9	239.4
130°	250.9	250.8	250.8	250.7	250.8	250.8	250.9	250.9	250.6	250.0	249.3
132.5°	260.3	260.3	260.2	260.2	260.2	260.3	260.3	260.4	260.2	259.6	259.1
135°	274.3	274.1	274.0	273.9	274.0	274.1	274.3	274.3	274.1	273.5	273.0
137.5°	287.0	286.8	286.6	286.4	286.6	286.8	287.0	287.1	287.0	286.4	285.8
140°	295.1	294.8	294.5	294.2	294.5	294.8	295.1	295.4	295.2	294.7	294.2
142.5°	302.6	302.4	302.1	301.7	302.1	302.4	302.6	303.0	302.9	302.4	301.9
145°	313.2	313.0	312.7	312.3	312.7	313.0	313.2	313.6	313.5	313.1	312.7
147.5°	322.5	322.2	322.0	321.7	322.0	322.2	322.5	322.7	322.7	322.4	322.0
150°	328.3	328.0	327.7	327.4	327.7	328.0	328.3	328.6	328.6	328.2	327.8
152.5°	333.4	333.0	332.6	332.2	332.6	333.0	333.4	333.8	333.8	333.5	333.1
155°	340.4	340.0	339.5	339.0	339.5	340.0	340.4	340.9	341.0	340.6	340.2
157.5°	346.5	346.1	345.6	345.2	345.6	346.1	346.5	347.0	347.0	346.7	346.3
160°	350.0	349.6	349.2	348.8	349.2	349.6	350.0	350.4	350.4	350.1	349.8
162.5°	353.2	352.7	352.2	351.7	352.2	352.7	353.2	353.8	353.8	353.4	352.9
165°	357.3	356.9	356.5	356.1	356.5	356.9	357.3	357.8	357.8	357.3	356.9
167.5°	360.5	360.0	359.5	358.9	359.5	360.0	360.5	361.0	361.1	360.7	360.3
170°	362.2	361.7	361.2	360.6	361.2	361.7	362.2	362.7	362.8	362.4	362.0
172.5°	363.5	363.0	362.4	361.9	362.4	363.0	363.5	364.0	364.0	363.6	363.2
175°	364.8	364.2	363.5	363.0	363.5	364.2	364.8	365.3	365.4	365.0	364.6
177.5°	364.9	364.5	364.1	363.7	364.1	364.5	364.9	365.3	365.4	365.1	364.8
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331375-930

CATALOG NUMBER: SA2XXDIP-C865D330U930-4F0-1E-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°	6.3	6.7	7.0	7.3	7.3	7.6	7.9	8.2	9.0	9.3	9.5
90°	5.5	5.3	4.8	4.3	3.8	3.4	2.9	2.2	1.5	0.9	0.2
92.5°	6.3	6.1	5.9	5.6	5.4	5.2	5.1	5.1	5.2	5.3	5.3
95°	10.6	10.3	9.9	9.5	9.0	8.6	9.4	11.3	13.3	15.2	17.1
97.5°	14.0	13.8	12.8	11.8	10.9	9.9	12.2	17.7	23.1	28.5	34.0
100°	15.5	15.0	14.0	13.0	12.1	11.0	14.6	22.6	30.6	38.6	46.6
102.5°	16.1	15.4	23.8	32.1	40.4	48.8	53.8	55.5	57.2	58.9	60.6
105°	16.7	16.1	32.0	48.1	64.1	80.1	87.2	85.4	83.6	81.9	80.1
107.5°	21.9	22.5	41.7	60.9	80.1	99.2	108.1	106.7	105.3	103.9	102.4
110°	40.3	46.1	63.0	80.0	96.9	113.8	121.7	120.5	119.3	118.0	116.8



TEST NUMBER: P331375-930

CATALOG NUMBER: SA2XXDIP-C865D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	95.0	116.3	120.5	124.7	128.9	133.1	134.6	133.5	132.5	131.3	130.3
115°	135.5	162.7	161.2	159.7	158.2	156.8	155.6	154.6	153.6	152.5	151.6
117.5°	173.6	180.2	179.1	178.1	177.2	176.1	175.0	174.0	172.8	171.7	170.6
120°	194.0	193.2	192.2	191.1	190.0	189.0	188.0	187.2	186.3	185.4	184.5
122.5°	206.1	205.7	204.6	203.3	202.2	201.1	200.1	199.1	198.2	197.3	196.3
125°	223.1	222.7	221.6	220.5	219.4	218.3	217.4	216.6	215.8	215.1	214.3
127.5°	238.7	238.1	237.3	236.5	235.6	234.8	234.0	233.2	232.3	231.5	230.6
130°	248.7	248.1	247.4	246.8	246.1	245.5	244.7	243.8	242.8	241.9	240.9
132.5°	258.5	258.0	257.3	256.7	256.0	255.4	254.7	253.9	253.1	252.3	251.5
135°	272.4	271.8	271.3	270.8	270.2	269.7	269.0	268.0	267.1	266.1	265.2
137.5°	285.3	284.7	284.1	283.5	282.9	282.3	281.7	281.0	280.4	279.7	279.1
140°	293.7	293.1	292.5	291.9	291.2	290.6	290.0	289.5	289.0	288.6	288.1
142.5°	301.4	300.9	300.2	299.5	298.7	298.0	297.4	297.0	296.5	296.1	295.7
145°	312.3	311.9	310.9	309.9	308.8	307.9	307.4	307.4	307.5	307.6	307.6
147.5°	321.7	321.5	320.5	319.5	318.5	317.5	317.2	317.3	317.6	317.8	318.0
150°	327.5	327.2	326.2	325.3	324.3	323.4	323.1	323.5	323.9	324.3	324.7
152.5°	332.7	332.4	331.5	330.6	329.7	328.8	328.6	329.1	329.5	330.0	330.4
155°	339.9	339.5	338.8	338.1	337.5	336.7	336.6	337.1	337.7	338.2	338.8
157.5°	345.8	345.4	345.0	344.5	344.0	343.5	343.4	343.9	344.3	344.8	345.2
160°	349.4	349.0	348.7	348.3	348.0	347.6	347.6	348.0	348.3	348.7	349.0
162.5°	352.6	352.2	351.9	351.6	351.2	351.0	351.0	351.3	351.7	352.0	352.4
165°	356.5	356.1	356.0	355.8	355.6	355.5	355.6	355.9	356.2	356.6	356.9
167.5°	359.9	359.5	359.3	359.1	359.0	358.8	358.9	359.2	359.6	360.0	360.3
170°	361.6	361.2	361.0	360.9	360.8	360.7	360.8	361.2	361.5	361.8	362.2
172.5°	362.8	362.4	362.3	362.2	362.1	361.9	362.1	362.4	362.7	363.1	363.5
175°	364.2	363.8	363.7	363.5	363.5	363.3	363.5	363.9	364.3	364.7	365.1
177.5°	364.4	364.1	364.0	364.0	363.9	363.9	364.0	364.4	364.7	365.0	365.3
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331375-930

CATALOG NUMBER: SA2XXDIP-C865D330U930-4F0-1E-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°	11.0	12.9	13.0	14.4	13.7	13.8	13.9	13.5	13.2	12.8	12.4
90°	0.9	1.5	2.2	2.9	3.4	3.8	4.3	4.8	5.3	5.5	5.9
92.5°	5.3	5.2	5.1	5.1	5.2	5.4	5.6	5.9	6.1	6.3	6.4
95°	15.2	13.3	11.3	9.4	8.6	9.0	9.5	9.9	10.3	10.6	10.8
97.5°	28.5	23.1	17.7	12.2	9.9	10.9	11.8	12.8	13.8	14.0	14.3
100°	38.6	30.6	22.6	14.6	11.0	12.1	13.0	14.0	15.0	15.5	16.0
102.5°	58.9	57.2	55.5	53.8	48.8	40.4	32.1	23.8	15.4	16.1	16.6
105°	81.9	83.6	85.4	87.2	80.1	64.1	48.1	32.0	16.1	16.7	17.4
107.5°	103.9	105.3	106.7	108.1	99.2	80.1	60.9	41.7	22.5	21.9	21.2
110°	118.0	119.3	120.5	121.7	113.8	96.9	80.0	63.0	46.1	40.3	34.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	131.3	132.5	133.5	134.6	133.1	128.9	124.7	120.5	116.3	95.0	73.6
115°	152.5	153.6	154.6	155.6	156.8	158.2	159.7	161.2	162.7	135.5	108.4
117.5°	171.7	172.8	174.0	175.0	176.1	177.2	178.1	179.1	180.2	173.6	167.1
120°	185.4	186.3	187.2	188.0	189.0	190.0	191.1	192.2	193.2	194.0	194.6
122.5°	197.3	198.2	199.1	200.1	201.1	202.2	203.3	204.6	205.7	206.1	206.5
125°	215.1	215.8	216.6	217.4	218.3	219.4	220.5	221.6	222.7	223.1	223.6
127.5°	231.5	232.3	233.2	234.0	234.8	235.6	236.5	237.3	238.1	238.7	239.4
130°	241.9	242.8	243.8	244.7	245.5	246.1	246.8	247.4	248.1	248.7	249.3
132.5°	252.3	253.1	253.9	254.7	255.4	256.0	256.7	257.3	258.0	258.5	259.1
135°	266.1	267.1	268.0	269.0	269.7	270.2	270.8	271.3	271.8	272.4	273.0
137.5°	279.7	280.4	281.0	281.7	282.3	282.9	283.5	284.1	284.7	285.3	285.8
140°	288.6	289.0	289.5	290.0	290.6	291.2	291.9	292.5	293.1	293.7	294.2
142.5°	296.1	296.5	297.0	297.4	298.0	298.7	299.5	300.2	300.9	301.4	301.9
145°	307.6	307.5	307.4	307.4	307.9	308.8	309.9	310.9	311.9	312.3	312.7
147.5°	317.8	317.6	317.3	317.2	317.5	318.5	319.5	320.5	321.5	321.7	322.0
150°	324.3	323.9	323.5	323.1	323.4	324.3	325.3	326.2	327.2	327.5	327.8
152.5°	330.0	329.5	329.1	328.6	328.8	329.7	330.6	331.5	332.4	332.7	333.1
155°	338.2	337.7	337.1	336.6	336.7	337.5	338.1	338.8	339.5	339.9	340.2
157.5°	344.8	344.3	343.9	343.4	343.5	344.0	344.5	345.0	345.4	345.8	346.3
160°	348.7	348.3	348.0	347.6	347.6	348.0	348.3	348.7	349.0	349.4	349.8
162.5°	352.0	351.7	351.3	351.0	351.0	351.2	351.6	351.9	352.2	352.6	352.9
165°	356.6	356.2	355.9	355.6	355.5	355.6	355.8	356.0	356.1	356.5	356.9
167.5°	360.0	359.6	359.2	358.9	358.8	359.0	359.1	359.3	359.5	359.9	360.3
170°	361.8	361.5	361.2	360.8	360.7	360.8	360.9	361.0	361.2	361.6	362.0
172.5°	363.1	362.7	362.4	362.1	361.9	362.1	362.2	362.3	362.4	362.8	363.2
175°	364.7	364.3	363.9	363.5	363.3	363.5	363.5	363.7	363.8	364.2	364.6
177.5°	365.0	364.7	364.4	364.0	363.9	363.9	364.0	364.0	364.1	364.4	364.8
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



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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°	12.9	13.0	12.6	12.6	13.0	12.6	12.6
90°	6.1	6.4	6.7	6.8	6.8	7.0	7.1
92.5°	6.6	6.7	6.8	6.9	7.0	7.0	7.1
95°	11.2	11.4	11.6	11.5	11.4	11.4	11.3
97.5°	14.4	14.7	14.8	14.9	15.0	15.1	15.2
100°	16.5	16.9	17.2	17.3	17.4	17.5	17.7
102.5°	17.3	17.9	18.3	18.4	18.6	18.8	18.9
105°	18.0	18.7	19.1	19.3	19.6	19.8	20.1
107.5°	20.5	19.9	19.6	19.9	20.1	20.4	20.6
110°	28.5	22.7	19.9	20.1	20.4	20.6	20.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	52.3	30.9	20.3	20.5	20.6	20.9	21.0
115°	81.3	54.1	38.5	34.2	30.1	25.8	21.6
117.5°	160.5	153.9	143.7	129.9	116.0	102.2	88.3
120°	195.3	196.0	192.4	184.5	176.6	168.7	160.8
122.5°	206.9	207.3	206.8	205.3	203.7	202.2	200.6
125°	224.0	224.4	224.7	224.9	225.0	225.2	225.3
127.5°	239.9	240.5	240.8	240.9	240.9	240.9	241.0
130°	250.0	250.6	250.9	250.9	250.8	250.8	250.7
132.5°	259.6	260.2	260.4	260.3	260.3	260.2	260.2
135°	273.5	274.1	274.3	274.3	274.1	274.0	273.9
137.5°	286.4	287.0	287.1	287.0	286.8	286.6	286.4
140°	294.7	295.2	295.4	295.1	294.8	294.5	294.2
142.5°	302.4	302.9	303.0	302.6	302.4	302.1	301.7
145°	313.1	313.5	313.6	313.2	313.0	312.7	312.3
147.5°	322.4	322.7	322.7	322.5	322.2	322.0	321.7
150°	328.2	328.6	328.6	328.3	328.0	327.7	327.4
152.5°	333.5	333.8	333.8	333.4	333.0	332.6	332.2
155°	340.6	341.0	340.9	340.4	340.0	339.5	339.0
157.5°	346.7	347.0	347.0	346.5	346.1	345.6	345.2
160°	350.1	350.4	350.4	350.0	349.6	349.2	348.8
162.5°	353.4	353.8	353.8	353.2	352.7	352.2	351.7
165°	357.3	357.8	357.8	357.3	356.9	356.5	356.1
167.5°	360.7	361.1	361.0	360.5	360.0	359.5	358.9
170°	362.4	362.8	362.7	362.2	361.7	361.2	360.6
172.5°	363.6	364.0	364.0	363.5	363.0	362.4	361.9
175°	365.0	365.4	365.3	364.8	364.2	363.5	363.0
177.5°	365.1	365.4	365.3	364.9	364.5	364.1	363.7
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3

(END OF REPORT)