

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: P331386-930

Luminaire Tested: **SA2XXDIP-C865D530U930-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331386-930
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-C865D530U930-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

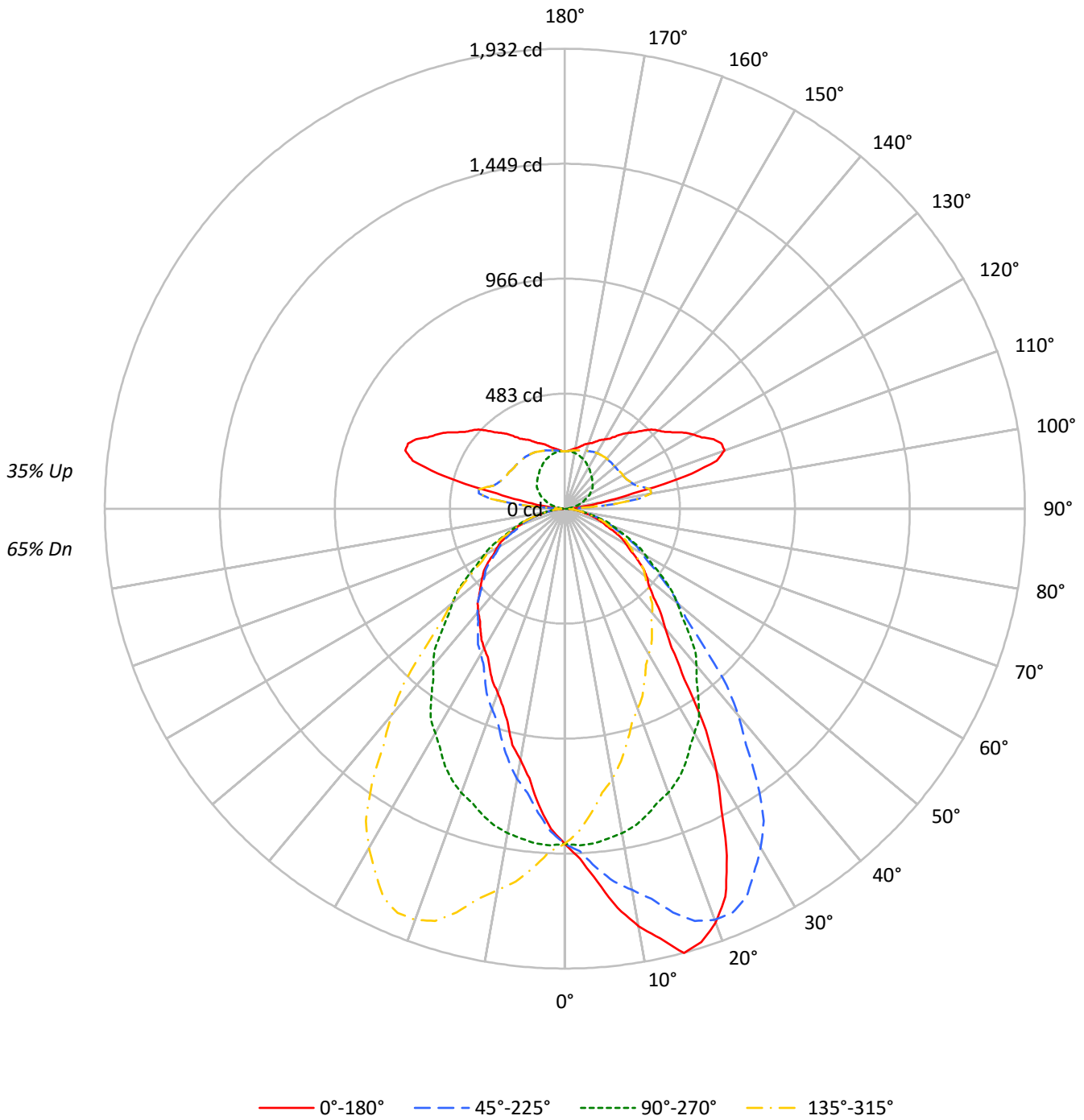
Lumens per Lamp: N/A
Luminaire Lumens: 4790.2 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.8
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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	65
1	102	98	94	90	96	92	89	86	81	79	77	72	70	68	63	61	60	56
2	93	86	80	75	87	81	76	71	72	68	64	64	61	58	56	54	52	48
3	85	76	69	63	80	72	66	60	64	59	55	57	53	50	50	47	45	41
4	79	68	60	54	74	64	57	52	57	52	47	51	47	43	45	42	39	36
5	72	61	53	47	68	58	51	45	52	46	41	46	42	38	41	37	34	32
6	67	55	47	41	63	52	45	40	47	41	37	42	37	34	38	34	31	28
7	62	50	42	36	58	48	40	35	43	37	33	39	34	30	34	31	28	25
8	58	46	38	33	54	43	36	31	39	33	29	35	31	27	32	28	25	23
9	54	42	34	29	51	40	33	28	36	30	26	33	28	25	29	26	23	21
10	51	39	31	27	48	37	30	26	34	28	24	30	26	22	27	24	21	19

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	2.8
10°-20°	389.7	8.1
20°-30°	565.6	11.8
30°-40°	596.9	12.5
40°-50°	528.5	11.0
50°-60°	421.7	8.8
60°-70°	286.7	6.0
70°-80°	147.0	3.1
80°-90°	37.6	0.8
90°-100°	96.7	2.0
100°-110°	328.1	6.8
110°-120°	348.5	7.3
120°-130°	286.9	6.0
130°-140°	230.4	4.8
140°-150°	174.1	3.6
150°-160°	122.4	2.6
160°-170°	72.0	1.5
170°-180°	23.4	0.5
0°-30°	1089.4	22.7
0°-40°	1686.3	35.2
0°-60°	2636.5	55.0
0°-90°	3107.7	64.9
90°-120°	773.2	16.1
90°-150°	1464.6	30.6
90°-180°	1682.0	35.1
0°-180°	4790.2	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	0	15	0	15	10
95°	53	16	53	16	53	69
105°	524	57	524	57	524	507
115°	690	100	690	100	690	675
125°	559	140	559	140	559	505
135°	464	164	464	164	464	360
145°	370	187	370	187	370	235
155°	311	212	311	212	311	145
165°	273	232	273	232	273	78
175°	246	241	246	241	246	24
180°	242	242	242	242	242	



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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	14.8	14.3	14.3	14.7	14.5	14.3	14.8	15.2	15.7
90°	15.3	15.3	15.3	15.3	15.3	14.8	13.9	14.8	15.3	15.8	15.3
92.5°	25.8	26.5	26.2	27.6	28.0	30.9	34.8	40.5	51.0	60.4	59.6
95°	53.0	52.5	54.0	57.6	63.7	73.9	93.4	121.8	159.5	182.3	161.3
97.5°	104.4	108.3	115.0	126.5	148.7	182.3	232.6	284.3	326.4	311.1	234.3
100°	166.5	174.8	188.3	208.3	246.9	303.1	366.9	424.5	434.2	367.3	252.9
102.5°	292.9	304.3	321.1	355.2	397.1	456.8	503.4	516.4	474.4	369.2	245.9
105°	524.0	530.5	550.5	579.4	608.1	623.5	617.4	564.9	468.2	344.5	232.0
107.5°	669.4	678.0	682.0	683.5	680.0	657.5	609.1	529.9	427.4	318.1	225.1
110°	713.2	713.7	709.6	700.7	680.7	642.5	583.0	499.9	401.7	305.5	223.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	712.5	710.0	702.1	687.3	659.5	615.8	552.2	472.3	383.8	297.3	224.0
115°	689.5	685.3	673.3	651.8	618.9	571.0	510.1	438.5	361.7	288.3	226.0
117.5°	648.5	645.0	632.3	609.7	576.0	531.1	475.8	412.9	347.8	283.9	229.3
120°	622.1	617.4	604.0	582.1	549.6	507.3	458.0	400.3	340.4	281.3	231.5
122.5°	594.6	590.7	578.7	557.2	528.0	489.8	443.1	390.3	334.0	279.8	234.2
125°	559.4	555.6	544.0	526.4	499.4	464.5	423.5	375.7	325.0	277.1	238.1
127.5°	528.5	525.5	515.4	498.9	475.4	443.2	404.6	361.3	316.7	275.6	242.1
130°	510.9	507.3	498.0	482.2	459.3	428.7	392.0	352.0	311.0	274.8	245.0
132.5°	492.8	489.4	480.9	465.0	442.6	413.8	380.1	343.1	306.6	274.4	248.0
135°	463.6	461.7	453.3	438.0	418.0	392.0	361.3	330.6	300.4	273.9	251.5
137.5°	434.9	432.1	424.8	411.6	393.4	370.6	346.3	320.7	296.0	273.8	254.7
140°	415.2	412.4	405.4	393.4	378.5	358.0	336.6	314.3	293.4	273.4	256.2
142.5°	395.5	394.9	388.7	377.7	363.6	346.5	328.1	309.1	290.8	273.4	257.3
145°	370.1	368.7	364.0	356.1	345.0	331.5	317.1	301.7	287.3	272.5	258.5
147.5°	348.8	348.0	344.8	338.5	329.3	319.4	308.2	296.1	283.8	270.8	258.9
150°	336.1	335.7	332.9	327.3	320.3	312.0	302.2	292.0	280.9	269.7	258.5
152.5°	325.4	325.3	323.3	318.4	312.9	305.7	297.4	287.9	278.3	267.8	257.8
155°	311.0	312.0	310.1	306.9	301.7	296.6	289.7	282.3	273.4	264.6	256.7
157.5°	298.9	298.9	298.1	295.3	291.7	287.7	281.8	275.7	268.8	261.2	254.5
160°	291.1	291.1	290.6	288.3	285.0	281.8	276.6	271.5	265.5	259.0	253.4
162.5°	283.6	284.0	283.6	281.9	278.7	276.2	271.8	267.4	262.5	257.1	252.3
165°	273.0	273.4	273.4	271.5	269.7	267.8	264.6	261.3	257.6	253.4	250.1
167.5°	263.1	263.7	263.7	262.7	261.9	260.2	258.0	255.4	252.7	250.1	248.0
170°	257.1	258.0	258.5	257.1	256.7	255.8	253.9	252.5	250.1	248.3	246.9
172.5°	252.3	252.8	253.3	252.7	252.2	251.6	250.1	249.2	247.5	246.1	245.4
175°	246.0	246.9	247.4	246.9	246.9	246.5	246.0	245.5	244.1	243.6	243.2
177.5°	242.1	242.9	243.3	243.3	243.3	243.3	242.9	242.9	242.1	241.7	242.1
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



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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°	15.5	14.8	14.3	15.0	13.5	13.3	11.2	9.6	9.5	9.4	8.7
90°	12.6	9.3	7.0	5.5	4.6	3.8	1.9	0.5	1.9	3.8	4.6
92.5°	46.4	31.6	21.1	16.7	13.6	11.5	8.2	5.7	8.2	11.5	13.6
95°	107.4	66.9	45.6	34.4	27.0	22.7	18.1	16.3	18.1	22.7	27.0
97.5°	144.7	88.4	61.5	48.8	40.3	33.9	29.0	26.5	29.0	33.9	40.3
100°	152.5	95.8	71.2	58.1	48.8	41.4	37.2	35.8	37.2	41.4	48.8
102.5°	152.9	102.5	79.7	66.7	57.0	49.6	45.4	44.4	45.4	49.6	57.0
105°	155.3	113.9	92.0	79.0	68.8	61.8	58.6	56.7	58.6	61.8	68.8
107.5°	161.7	125.6	104.4	91.3	81.2	74.8	71.6	70.1	71.6	74.8	81.2
110°	166.9	133.5	113.0	99.5	89.8	83.7	80.9	79.0	80.9	83.7	89.8



TEST NUMBER: P331386-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	172.5	140.9	121.2	107.3	97.9	92.2	89.1	87.2	89.1	92.2	97.9
115°	180.8	152.5	132.5	119.9	110.6	105.1	102.3	100.0	102.3	105.1	110.6
117.5°	189.8	163.2	144.7	131.7	122.8	117.8	115.0	113.2	115.0	117.8	122.8
120°	195.8	170.6	152.5	139.5	130.2	126.0	123.2	121.3	123.2	126.0	130.2
122.5°	201.0	177.7	160.7	147.3	138.0	133.5	130.7	129.1	130.7	133.5	138.0
125°	209.2	188.3	171.5	158.6	149.3	143.7	140.9	139.5	140.9	143.7	149.3
127.5°	217.0	198.2	181.9	168.5	159.6	153.4	149.5	147.7	149.5	153.4	159.6
130°	221.8	204.2	187.8	174.8	165.5	159.0	154.3	152.5	154.3	159.0	165.5
132.5°	226.7	209.3	193.8	180.8	171.1	164.2	159.2	156.9	159.2	164.2	171.1
135°	232.9	216.7	201.8	188.7	178.1	171.1	165.5	163.6	165.5	171.1	178.1
137.5°	237.7	222.7	207.9	195.8	185.2	177.8	172.2	170.0	172.2	177.8	185.2
140°	240.4	226.0	212.1	199.9	189.7	182.3	176.7	174.8	176.7	182.3	189.7
142.5°	242.6	228.6	215.0	203.7	193.8	186.4	181.2	179.7	181.2	186.4	193.8
145°	245.5	232.4	219.9	209.7	200.4	193.4	188.7	186.9	188.7	193.4	200.4
147.5°	247.1	235.6	223.8	214.7	207.0	200.6	196.1	194.7	196.1	200.6	207.0
150°	247.9	237.1	226.4	218.1	211.1	205.0	201.3	199.9	201.3	205.0	211.1
152.5°	248.2	238.6	229.0	221.4	214.8	209.5	205.8	205.1	205.8	209.5	214.8
155°	248.7	240.8	232.9	226.0	220.9	215.7	213.0	212.5	213.0	215.7	220.9
157.5°	248.7	242.4	235.7	229.9	225.8	221.4	219.1	218.6	219.1	221.4	225.8
160°	248.7	243.2	237.6	232.4	228.8	225.0	223.1	222.7	223.1	225.0	228.8
162.5°	248.3	243.5	238.7	234.7	231.4	228.4	226.5	226.8	226.5	228.4	231.4
165°	247.4	244.1	239.9	237.1	234.8	232.0	231.1	231.5	231.1	232.0	234.8
167.5°	246.7	244.0	240.9	239.2	237.5	235.7	234.9	235.5	234.9	235.7	237.5
170°	246.0	243.6	241.3	239.9	239.0	237.6	237.1	238.1	237.1	237.6	239.0
172.5°	244.8	243.3	241.7	240.7	240.1	238.7	239.0	239.5	239.0	238.7	240.1
175°	243.6	242.7	241.7	241.3	241.3	240.4	240.8	241.3	240.8	240.4	241.3
177.5°	242.9	242.1	241.7	241.7	241.7	241.0	241.4	242.1	241.4	241.0	241.7
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



TEST NUMBER: P331386-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A4

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°	8.5	8.3	8.3	9.0	9.1	8.8	8.2	8.2	8.0	7.3	7.4
90°	5.5	7.0	9.3	12.6	15.3	15.8	15.3	14.8	13.9	14.8	15.3
92.5°	16.7	21.1	31.6	46.4	59.6	60.4	51.0	40.5	34.8	30.9	28.0
95°	34.4	45.6	66.9	107.4	161.3	182.3	159.5	121.8	93.4	73.9	63.7
97.5°	48.8	61.5	88.4	144.7	234.3	311.1	326.4	284.3	232.6	182.3	148.7
100°	58.1	71.2	95.8	152.5	252.9	367.3	434.2	424.5	366.9	303.1	246.9
102.5°	66.7	79.7	102.5	152.9	245.9	369.2	474.4	516.4	503.4	456.8	397.1
105°	79.0	92.0	113.9	155.3	232.0	344.5	468.2	564.9	617.4	623.5	608.1
107.5°	91.3	104.4	125.6	161.7	225.1	318.1	427.4	529.9	609.1	657.5	680.0
110°	99.5	113.0	133.5	166.9	223.6	305.5	401.7	499.9	583.0	642.5	680.7



TEST NUMBER: P331386-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	107.3	121.2	140.9	172.5	224.0	297.3	383.8	472.3	552.2	615.8	659.5
115°	119.9	132.5	152.5	180.8	226.0	288.3	361.7	438.5	510.1	571.0	618.9
117.5°	131.7	144.7	163.2	189.8	229.3	283.9	347.8	412.9	475.8	531.1	576.0
120°	139.5	152.5	170.6	195.8	231.5	281.3	340.4	400.3	458.0	507.3	549.6
122.5°	147.3	160.7	177.7	201.0	234.2	279.8	334.0	390.3	443.1	489.8	528.0
125°	158.6	171.5	188.3	209.2	238.1	277.1	325.0	375.7	423.5	464.5	499.4
127.5°	168.5	181.9	198.2	217.0	242.1	275.6	316.7	361.3	404.6	443.2	475.4
130°	174.8	187.8	204.2	221.8	245.0	274.8	311.0	352.0	392.0	428.7	459.3
132.5°	180.8	193.8	209.3	226.7	248.0	274.4	306.6	343.1	380.1	413.8	442.6
135°	188.7	201.8	216.7	232.9	251.5	273.9	300.4	330.6	361.3	392.0	418.0
137.5°	195.8	207.9	222.7	237.7	254.7	273.8	296.0	320.7	346.3	370.6	393.4
140°	199.9	212.1	226.0	240.4	256.2	273.4	293.4	314.3	336.6	358.0	378.5
142.5°	203.7	215.0	228.6	242.6	257.3	273.4	290.8	309.1	328.1	346.5	363.6
145°	209.7	219.9	232.4	245.5	258.5	272.5	287.3	301.7	317.1	331.5	345.0
147.5°	214.7	223.8	235.6	247.1	258.9	270.8	283.8	296.1	308.2	319.4	329.3
150°	218.1	226.4	237.1	247.9	258.5	269.7	280.9	292.0	302.2	312.0	320.3
152.5°	221.4	229.0	238.6	248.2	257.8	267.8	278.3	287.9	297.4	305.7	312.9
155°	226.0	232.9	240.8	248.7	256.7	264.6	273.4	282.3	289.7	296.6	301.7
157.5°	229.9	235.7	242.4	248.7	254.5	261.2	268.8	275.7	281.8	287.7	291.7
160°	232.4	237.6	243.2	248.7	253.4	259.0	265.5	271.5	276.6	281.8	285.0
162.5°	234.7	238.7	243.5	248.3	252.3	257.1	262.5	267.4	271.8	276.2	278.7
165°	237.1	239.9	244.1	247.4	250.1	253.4	257.6	261.3	264.6	267.8	269.7
167.5°	239.2	240.9	244.0	246.7	248.0	250.1	252.7	255.4	258.0	260.2	261.9
170°	239.9	241.3	243.6	246.0	246.9	248.3	250.1	252.5	253.9	255.8	256.7
172.5°	240.7	241.7	243.3	244.8	245.4	246.1	247.5	249.2	250.1	251.6	252.2
175°	241.3	241.7	242.7	243.6	243.2	243.6	244.1	245.5	246.0	246.5	246.9
177.5°	241.7	241.7	242.1	242.9	242.1	241.7	242.1	242.9	242.9	243.3	243.3
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



TEST NUMBER: P331386-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A4

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°	7.4	6.9	6.9	6.5	6.9	6.9	7.4	7.4	7.3	8.0	8.2
90°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	14.8	13.9	14.8
92.5°	27.6	26.2	26.5	25.8	26.5	26.2	27.6	28.0	30.9	34.8	40.5
95°	57.6	54.0	52.5	53.0	52.5	54.0	57.6	63.7	73.9	93.4	121.8
97.5°	126.5	115.0	108.3	104.4	108.3	115.0	126.5	148.7	182.3	232.6	284.3
100°	208.3	188.3	174.8	166.5	174.8	188.3	208.3	246.9	303.1	366.9	424.5
102.5°	355.2	321.1	304.3	292.9	304.3	321.1	355.2	397.1	456.8	503.4	516.4
105°	579.4	550.5	530.5	524.0	530.5	550.5	579.4	608.1	623.5	617.4	564.9
107.5°	683.5	682.0	678.0	669.4	678.0	682.0	683.5	680.0	657.5	609.1	529.9
110°	700.7	709.6	713.7	713.2	713.7	709.6	700.7	680.7	642.5	583.0	499.9



TEST NUMBER: P331386-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	687.3	702.1	710.0	712.5	710.0	702.1	687.3	659.5	615.8	552.2	472.3
115°	651.8	673.3	685.3	689.5	685.3	673.3	651.8	618.9	571.0	510.1	438.5
117.5°	609.7	632.3	645.0	648.5	645.0	632.3	609.7	576.0	531.1	475.8	412.9
120°	582.1	604.0	617.4	622.1	617.4	604.0	582.1	549.6	507.3	458.0	400.3
122.5°	557.2	578.7	590.7	594.6	590.7	578.7	557.2	528.0	489.8	443.1	390.3
125°	526.4	544.0	555.6	559.4	555.6	544.0	526.4	499.4	464.5	423.5	375.7
127.5°	498.9	515.4	525.5	528.5	525.5	515.4	498.9	475.4	443.2	404.6	361.3
130°	482.2	498.0	507.3	510.9	507.3	498.0	482.2	459.3	428.7	392.0	352.0
132.5°	465.0	480.9	489.4	492.8	489.4	480.9	465.0	442.6	413.8	380.1	343.1
135°	438.0	453.3	461.7	463.6	461.7	453.3	438.0	418.0	392.0	361.3	330.6
137.5°	411.6	424.8	432.1	434.9	432.1	424.8	411.6	393.4	370.6	346.3	320.7
140°	393.4	405.4	412.4	415.2	412.4	405.4	393.4	378.5	358.0	336.6	314.3
142.5°	377.7	388.7	394.9	395.5	394.9	388.7	377.7	363.6	346.5	328.1	309.1
145°	356.1	364.0	368.7	370.1	368.7	364.0	356.1	345.0	331.5	317.1	301.7
147.5°	338.5	344.8	348.0	348.8	348.0	344.8	338.5	329.3	319.4	308.2	296.1
150°	327.3	332.9	335.7	336.1	335.7	332.9	327.3	320.3	312.0	302.2	292.0
152.5°	318.4	323.3	325.3	325.4	325.3	323.3	318.4	312.9	305.7	297.4	287.9
155°	306.9	310.1	312.0	311.0	312.0	310.1	306.9	301.7	296.6	289.7	282.3
157.5°	295.3	298.1	298.9	298.9	298.9	298.1	295.3	291.7	287.7	281.8	275.7
160°	288.3	290.6	291.1	291.1	291.1	290.6	288.3	285.0	281.8	276.6	271.5
162.5°	281.9	283.6	284.0	283.6	284.0	283.6	281.9	278.7	276.2	271.8	267.4
165°	271.5	273.4	273.4	273.0	273.4	273.4	271.5	269.7	267.8	264.6	261.3
167.5°	262.7	263.7	263.7	263.1	263.7	263.7	262.7	261.9	260.2	258.0	255.4
170°	257.1	258.5	258.0	257.1	258.0	258.5	257.1	256.7	255.8	253.9	252.5
172.5°	252.7	253.3	252.8	252.3	252.8	253.3	252.7	252.2	251.6	250.1	249.2
175°	246.9	247.4	246.9	246.0	246.9	247.4	246.9	246.9	246.5	246.0	245.5
177.5°	243.3	243.3	242.9	242.1	242.9	243.3	243.3	243.3	243.3	242.9	242.9
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



TEST NUMBER: P331386-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A4

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°	8.2	8.8	9.1	9.0	8.3	8.3	8.5	8.7	9.4	9.5	9.6
90°	15.3	15.8	15.3	12.6	9.3	7.0	5.5	4.6	3.8	1.9	0.5
92.5°	51.0	60.4	59.6	46.4	31.6	21.1	16.7	13.6	11.5	8.2	5.7
95°	159.5	182.3	161.3	107.4	66.9	45.6	34.4	27.0	22.7	18.1	16.3
97.5°	326.4	311.1	234.3	144.7	88.4	61.5	48.8	40.3	33.9	29.0	26.5
100°	434.2	367.3	252.9	152.5	95.8	71.2	58.1	48.8	41.4	37.2	35.8
102.5°	474.4	369.2	245.9	152.9	102.5	79.7	66.7	57.0	49.6	45.4	44.4
105°	468.2	344.5	232.0	155.3	113.9	92.0	79.0	68.8	61.8	58.6	56.7
107.5°	427.4	318.1	225.1	161.7	125.6	104.4	91.3	81.2	74.8	71.6	70.1
110°	401.7	305.5	223.6	166.9	133.5	113.0	99.5	89.8	83.7	80.9	79.0



TEST NUMBER: P331386-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	383.8	297.3	224.0	172.5	140.9	121.2	107.3	97.9	92.2	89.1	87.2
115°	361.7	288.3	226.0	180.8	152.5	132.5	119.9	110.6	105.1	102.3	100.0
117.5°	347.8	283.9	229.3	189.8	163.2	144.7	131.7	122.8	117.8	115.0	113.2
120°	340.4	281.3	231.5	195.8	170.6	152.5	139.5	130.2	126.0	123.2	121.3
122.5°	334.0	279.8	234.2	201.0	177.7	160.7	147.3	138.0	133.5	130.7	129.1
125°	325.0	277.1	238.1	209.2	188.3	171.5	158.6	149.3	143.7	140.9	139.5
127.5°	316.7	275.6	242.1	217.0	198.2	181.9	168.5	159.6	153.4	149.5	147.7
130°	311.0	274.8	245.0	221.8	204.2	187.8	174.8	165.5	159.0	154.3	152.5
132.5°	306.6	274.4	248.0	226.7	209.3	193.8	180.8	171.1	164.2	159.2	156.9
135°	300.4	273.9	251.5	232.9	216.7	201.8	188.7	178.1	171.1	165.5	163.6
137.5°	296.0	273.8	254.7	237.7	222.7	207.9	195.8	185.2	177.8	172.2	170.0
140°	293.4	273.4	256.2	240.4	226.0	212.1	199.9	189.7	182.3	176.7	174.8
142.5°	290.8	273.4	257.3	242.6	228.6	215.0	203.7	193.8	186.4	181.2	179.7
145°	287.3	272.5	258.5	245.5	232.4	219.9	209.7	200.4	193.4	188.7	186.9
147.5°	283.8	270.8	258.9	247.1	235.6	223.8	214.7	207.0	200.6	196.1	194.7
150°	280.9	269.7	258.5	247.9	237.1	226.4	218.1	211.1	205.0	201.3	199.9
152.5°	278.3	267.8	257.8	248.2	238.6	229.0	221.4	214.8	209.5	205.8	205.1
155°	273.4	264.6	256.7	248.7	240.8	232.9	226.0	220.9	215.7	213.0	212.5
157.5°	268.8	261.2	254.5	248.7	242.4	235.7	229.9	225.8	221.4	219.1	218.6
160°	265.5	259.0	253.4	248.7	243.2	237.6	232.4	228.8	225.0	223.1	222.7
162.5°	262.5	257.1	252.3	248.3	243.5	238.7	234.7	231.4	228.4	226.5	226.8
165°	257.6	253.4	250.1	247.4	244.1	239.9	237.1	234.8	232.0	231.1	231.5
167.5°	252.7	250.1	248.0	246.7	244.0	240.9	239.2	237.5	235.7	234.9	235.5
170°	250.1	248.3	246.9	246.0	243.6	241.3	239.9	239.0	237.6	237.1	238.1
172.5°	247.5	246.1	245.4	244.8	243.3	241.7	240.7	240.1	238.7	239.0	239.5
175°	244.1	243.6	243.2	243.6	242.7	241.7	241.3	241.3	240.4	240.8	241.3
177.5°	242.1	241.7	242.1	242.9	242.1	241.7	241.7	241.7	241.0	241.4	242.1
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



TEST NUMBER: P331386-930
 CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A4

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°	11.2	13.3	13.5	15.0	14.3	14.8	15.5	15.7	15.2	14.8	14.3
90°	1.9	3.8	4.6	5.5	7.0	9.3	12.6	15.3	15.8	15.3	14.8
92.5°	8.2	11.5	13.6	16.7	21.1	31.6	46.4	59.6	60.4	51.0	40.5
95°	18.1	22.7	27.0	34.4	45.6	66.9	107.4	161.3	182.3	159.5	121.8
97.5°	29.0	33.9	40.3	48.8	61.5	88.4	144.7	234.3	311.1	326.4	284.3
100°	37.2	41.4	48.8	58.1	71.2	95.8	152.5	252.9	367.3	434.2	424.5
102.5°	45.4	49.6	57.0	66.7	79.7	102.5	152.9	245.9	369.2	474.4	516.4
105°	58.6	61.8	68.8	79.0	92.0	113.9	155.3	232.0	344.5	468.2	564.9
107.5°	71.6	74.8	81.2	91.3	104.4	125.6	161.7	225.1	318.1	427.4	529.9
110°	80.9	83.7	89.8	99.5	113.0	133.5	166.9	223.6	305.5	401.7	499.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	89.1	92.2	97.9	107.3	121.2	140.9	172.5	224.0	297.3	383.8	472.3
115°	102.3	105.1	110.6	119.9	132.5	152.5	180.8	226.0	288.3	361.7	438.5
117.5°	115.0	117.8	122.8	131.7	144.7	163.2	189.8	229.3	283.9	347.8	412.9
120°	123.2	126.0	130.2	139.5	152.5	170.6	195.8	231.5	281.3	340.4	400.3
122.5°	130.7	133.5	138.0	147.3	160.7	177.7	201.0	234.2	279.8	334.0	390.3
125°	140.9	143.7	149.3	158.6	171.5	188.3	209.2	238.1	277.1	325.0	375.7
127.5°	149.5	153.4	159.6	168.5	181.9	198.2	217.0	242.1	275.6	316.7	361.3
130°	154.3	159.0	165.5	174.8	187.8	204.2	221.8	245.0	274.8	311.0	352.0
132.5°	159.2	164.2	171.1	180.8	193.8	209.3	226.7	248.0	274.4	306.6	343.1
135°	165.5	171.1	178.1	188.7	201.8	216.7	232.9	251.5	273.9	300.4	330.6
137.5°	172.2	177.8	185.2	195.8	207.9	222.7	237.7	254.7	273.8	296.0	320.7
140°	176.7	182.3	189.7	199.9	212.1	226.0	240.4	256.2	273.4	293.4	314.3
142.5°	181.2	186.4	193.8	203.7	215.0	228.6	242.6	257.3	273.4	290.8	309.1
145°	188.7	193.4	200.4	209.7	219.9	232.4	245.5	258.5	272.5	287.3	301.7
147.5°	196.1	200.6	207.0	214.7	223.8	235.6	247.1	258.9	270.8	283.8	296.1
150°	201.3	205.0	211.1	218.1	226.4	237.1	247.9	258.5	269.7	280.9	292.0
152.5°	205.8	209.5	214.8	221.4	229.0	238.6	248.2	257.8	267.8	278.3	287.9
155°	213.0	215.7	220.9	226.0	232.9	240.8	248.7	256.7	264.6	273.4	282.3
157.5°	219.1	221.4	225.8	229.9	235.7	242.4	248.7	254.5	261.2	268.8	275.7
160°	223.1	225.0	228.8	232.4	237.6	243.2	248.7	253.4	259.0	265.5	271.5
162.5°	226.5	228.4	231.4	234.7	238.7	243.5	248.3	252.3	257.1	262.5	267.4
165°	231.1	232.0	234.8	237.1	239.9	244.1	247.4	250.1	253.4	257.6	261.3
167.5°	234.9	235.7	237.5	239.2	240.9	244.0	246.7	248.0	250.1	252.7	255.4
170°	237.1	237.6	239.0	239.9	241.3	243.6	246.0	246.9	248.3	250.1	252.5
172.5°	239.0	238.7	240.1	240.7	241.7	243.3	244.8	245.4	246.1	247.5	249.2
175°	240.8	240.4	241.3	241.3	241.7	242.7	243.6	243.2	243.6	244.1	245.5
177.5°	241.4	241.0	241.7	241.7	241.7	242.1	242.9	242.1	241.7	242.1	242.9
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



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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°	14.5	14.7	14.3	14.3	14.8	14.3	14.3
90°	13.9	14.8	15.3	15.3	15.3	15.3	15.3
92.5°	34.8	30.9	28.0	27.6	26.2	26.5	25.8
95°	93.4	73.9	63.7	57.6	54.0	52.5	53.0
97.5°	232.6	182.3	148.7	126.5	115.0	108.3	104.4
100°	366.9	303.1	246.9	208.3	188.3	174.8	166.5
102.5°	503.4	456.8	397.1	355.2	321.1	304.3	292.9
105°	617.4	623.5	608.1	579.4	550.5	530.5	524.0
107.5°	609.1	657.5	680.0	683.5	682.0	678.0	669.4
110°	583.0	642.5	680.7	700.7	709.6	713.7	713.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	552.2	615.8	659.5	687.3	702.1	710.0	712.5
115°	510.1	571.0	618.9	651.8	673.3	685.3	689.5
117.5°	475.8	531.1	576.0	609.7	632.3	645.0	648.5
120°	458.0	507.3	549.6	582.1	604.0	617.4	622.1
122.5°	443.1	489.8	528.0	557.2	578.7	590.7	594.6
125°	423.5	464.5	499.4	526.4	544.0	555.6	559.4
127.5°	404.6	443.2	475.4	498.9	515.4	525.5	528.5
130°	392.0	428.7	459.3	482.2	498.0	507.3	510.9
132.5°	380.1	413.8	442.6	465.0	480.9	489.4	492.8
135°	361.3	392.0	418.0	438.0	453.3	461.7	463.6
137.5°	346.3	370.6	393.4	411.6	424.8	432.1	434.9
140°	336.6	358.0	378.5	393.4	405.4	412.4	415.2
142.5°	328.1	346.5	363.6	377.7	388.7	394.9	395.5
145°	317.1	331.5	345.0	356.1	364.0	368.7	370.1
147.5°	308.2	319.4	329.3	338.5	344.8	348.0	348.8
150°	302.2	312.0	320.3	327.3	332.9	335.7	336.1
152.5°	297.4	305.7	312.9	318.4	323.3	325.3	325.4
155°	289.7	296.6	301.7	306.9	310.1	312.0	311.0
157.5°	281.8	287.7	291.7	295.3	298.1	298.9	298.9
160°	276.6	281.8	285.0	288.3	290.6	291.1	291.1
162.5°	271.8	276.2	278.7	281.9	283.6	284.0	283.6
165°	264.6	267.8	269.7	271.5	273.4	273.4	273.0
167.5°	258.0	260.2	261.9	262.7	263.7	263.7	263.1
170°	253.9	255.8	256.7	257.1	258.5	258.0	257.1
172.5°	250.1	251.6	252.2	252.7	253.3	252.8	252.3
175°	246.0	246.5	246.9	246.9	247.4	246.9	246.0
177.5°	242.9	243.3	243.3	243.3	243.3	242.9	242.1
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7

(END OF REPORT)