

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: P331711-927

Luminaire Tested: **SA2XXRDIP-C865D530U927-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331711-927
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: SA2XXRDIP-C865D530U927-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

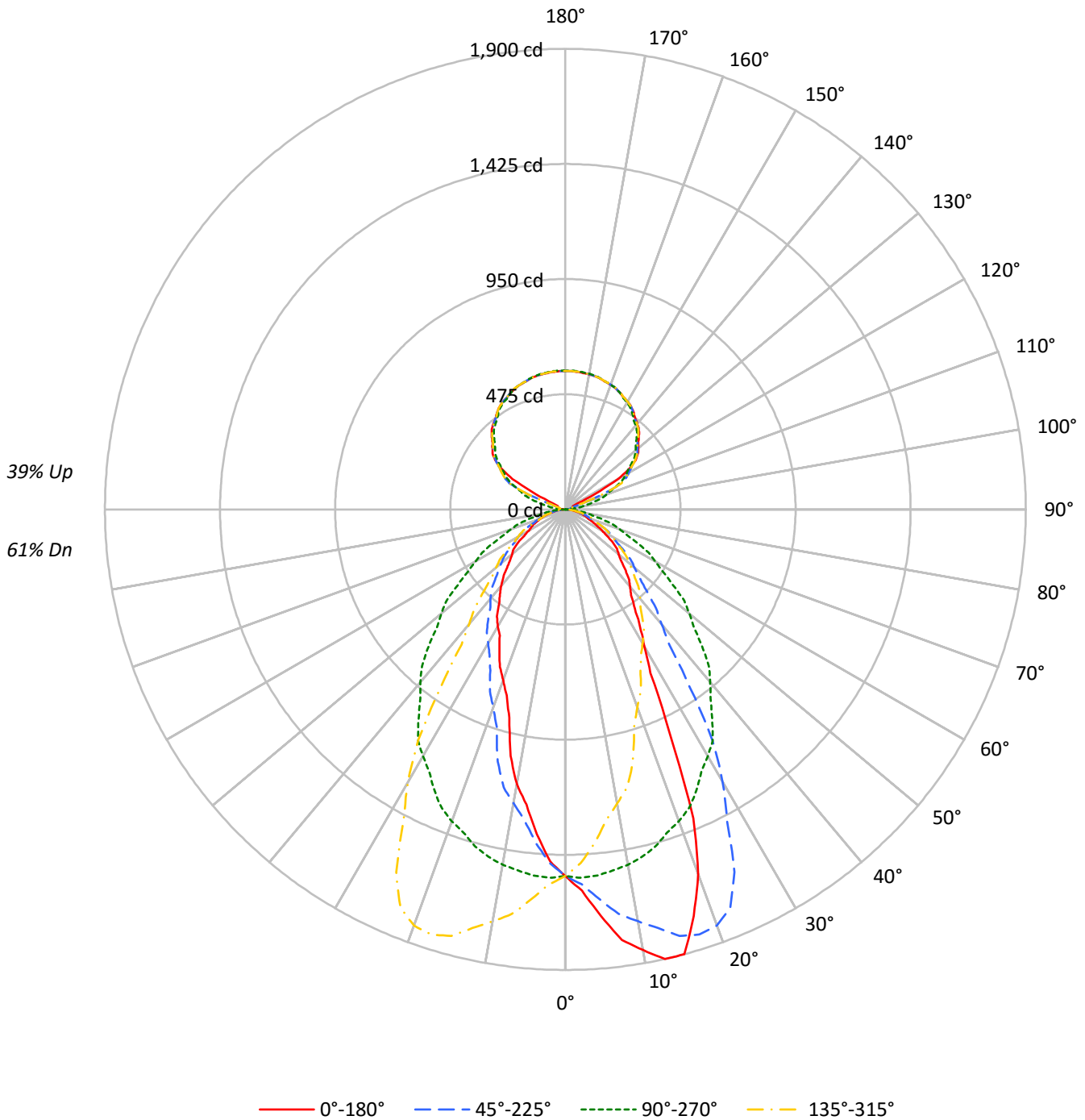
Lumens per Lamp: N/A
Luminaire Lumens: 4290.1 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66	61	
1	101	97	94	90	95	91	88	85	80	78	75	70	68	66	60	59	58	58	58	58	53	
2	93	86	80	75	87	81	76	72	71	67	64	62	59	57	54	52	50	50	50	50	46	
3	86	77	70	64	80	72	66	61	64	59	55	56	52	49	49	46	44	44	44	44	40	
4	79	69	61	55	74	65	58	53	57	52	48	51	47	43	44	41	39	39	39	39	36	
5	73	62	54	48	68	58	51	46	52	47	42	46	42	38	41	37	35	35	35	35	32	
6	68	56	48	43	63	53	46	41	47	42	38	42	38	34	37	34	31	31	31	31	28	
7	63	51	43	38	59	48	41	37	43	38	34	39	34	31	34	31	28	28	28	28	26	
8	59	47	39	34	55	44	38	33	40	34	30	36	31	28	32	28	26	26	26	26	23	
9	55	43	36	31	52	41	34	30	37	31	28	33	29	26	30	26	23	23	23	23	21	
10	51	40	33	28	48	38	31	27	34	29	25	31	27	23	28	24	22	22	22	22	20	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	24425	24425	24425	24425
5°	27279	24577	21793	24577
10°	30263	24405	18889	24405
15°	31753	24047	14883	24047
20°	27527	23517	12880	23517
25°	18054	22792	11500	22792
30°	12152	21912	10407	21912
35°	9841	20802	9386	20802
40°	8753	19597	8686	19597
45°	7921	18182	7752	18182
50°	7209	16779	7181	16779
55°	6776	15226	6688	15226
60°	5667	13798	5603	13798
65°	4779	12531	5421	12531
70°	4419	11188	5113	11188
75°	4130	9738	4722	9738
80°	3812	8015	4203	8015
85°	3501	6317	3705	6317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.3
10°-20°	399.6	9.3
20°-30°	514.9	12.0
30°-40°	489.3	11.4
40°-50°	419.2	9.8
50°-60°	319.2	7.4
60°-70°	201.8	4.7
70°-80°	100.8	2.3
80°-90°	27.6	0.6
90°-100°	19.1	0.4
100°-110°	69.9	1.6
110°-120°	186.8	4.4
120°-130°	308.4	7.2
130°-140°	328.0	7.6
140°-150°	304.8	7.1
150°-160°	245.1	5.7
160°-170°	157.9	3.7
170°-180°	54.4	1.3
0°-30°	1057.9	24.7
0°-40°	1547.2	36.1
0°-60°	2285.6	53.3
0°-90°	2615.7	61.0
90°-120°	275.8	6.4
90°-150°	1217.0	28.4
90°-180°	1674.0	39.0
0°-180°	4290.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1513	1513	1513	1513	1513	
5°	1683	1516	1345	1516	1683	166
15°	1900	1439	890	1439	1900	512
25°	1013	1279	646	1279	1013	481
35°	499	1055	476	1055	499	319
45°	347	796	340	796	347	269
55°	241	541	238	541	241	211
65°	125	328	142	328	125	127
75°	66	156	76	156	66	70
85°	19	34	20	34	19	21
90°	11	0	11	0	11	6
95°	18	27	18	27	18	17
105°	31	126	31	126	31	33
115°	34	238	34	238	34	85
125°	354	336	354	336	354	306
135°	430	416	430	416	430	331
145°	490	482	490	482	490	306
155°	532	531	532	531	532	245
165°	558	560	558	560	558	158
175°	569	573	569	573	569	54
180°	571	571	571	571	571	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1574.1	1575.4	1576.7	1573.7	1573.7	1571.2	1565.7	1561.5	1549.7	1548.1	1548.1
5°	1683.1	1682.0	1684.1	1677.3	1667.8	1665.7	1655.7	1642.6	1628.9	1613.7	1610.5
7.5°	1791.3	1789.7	1785.5	1784.4	1777.1	1761.3	1745.2	1728.1	1705.3	1683.1	1672.0
10°	1845.9	1863.3	1852.8	1834.4	1838.1	1813.4	1800.2	1777.7	1758.7	1725.6	1718.2
12.5°	1899.8	1906.6	1903.3	1892.8	1888.2	1871.0	1853.2	1833.6	1798.6	1768.9	1743.0
15°	1899.6	1909.6	1912.2	1909.1	1911.7	1910.7	1901.2	1884.8	1854.4	1821.8	1793.4
17.5°	1759.4	1766.3	1783.5	1795.2	1809.9	1841.0	1856.4	1862.3	1857.8	1839.2	1819.2
20°	1602.1	1590.5	1638.9	1663.6	1684.6	1737.2	1782.4	1799.8	1827.6	1827.1	1821.8
22.5°	1379.2	1382.0	1427.8	1457.1	1518.5	1571.1	1622.6	1687.9	1741.8	1777.4	1798.3
25°	1013.4	1033.4	1079.1	1119.0	1187.4	1285.2	1374.0	1477.0	1574.2	1651.0	1724.0
27.5°	761.1	762.6	798.8	835.8	876.3	956.4	1068.3	1191.3	1329.9	1444.3	1575.9
30°	651.8	648.6	663.8	686.4	721.1	783.2	867.3	988.2	1126.4	1298.8	1452.3
32.5°	574.4	574.6	586.1	602.8	631.6	673.4	731.0	829.3	959.9	1129.3	1309.3
35°	499.3	498.8	507.2	519.3	531.4	558.2	597.6	649.1	739.0	897.2	1081.2
37.5°	445.5	447.8	451.9	459.5	472.9	487.7	511.4	546.1	610.1	703.6	858.3
40°	415.3	416.3	422.1	428.4	436.3	447.8	467.3	495.1	541.9	616.6	729.5
42.5°	387.5	388.6	392.6	398.5	404.7	416.3	432.4	456.5	494.4	552.6	645.9
45°	346.9	346.9	350.6	353.2	360.0	370.6	383.7	403.7	429.9	473.1	535.1
47.5°	308.9	309.0	311.4	315.9	320.2	328.4	341.4	357.7	376.8	410.1	463.1
50°	287.0	287.5	289.1	292.8	295.4	302.8	312.8	326.9	346.9	372.6	416.8
52.5°	269.3	269.0	271.0	272.6	274.4	279.6	287.1	299.6	317.5	339.8	376.4
55°	240.7	238.6	241.8	244.4	246.0	248.1	252.3	260.2	275.4	294.4	321.7
57.5°	205.0	204.1	206.4	208.7	213.7	219.4	223.0	228.0	235.9	249.5	276.6
60°	175.5	175.5	180.3	181.9	187.7	195.0	202.4	206.6	214.4	223.4	243.4
62.5°	149.5	149.9	152.1	153.7	156.9	166.0	176.3	185.5	193.0	201.5	214.8
65°	125.1	126.1	126.1	127.2	129.3	131.4	135.6	143.0	156.1	168.2	178.2
67.5°	106.2	106.5	106.8	107.9	108.4	110.7	112.4	115.7	118.7	130.2	142.5
70°	93.6	95.1	94.6	95.7	96.2	97.2	99.3	100.9	105.7	108.3	115.7
72.5°	81.8	82.9	82.9	83.5	84.8	85.1	86.7	88.3	91.3	93.6	97.5
75°	66.2	65.7	66.2	67.3	67.8	68.4	68.4	70.4	72.0	74.1	76.8
77.5°	51.1	51.7	51.5	51.7	51.7	52.7	52.6	53.5	55.1	56.2	57.4
80°	41.0	41.5	41.0	41.5	42.1	42.5	42.1	42.5	44.1	45.2	45.2
82.5°	31.8	31.8	32.2	32.2	32.4	32.5	33.2	33.4	34.5	34.3	34.7
85°	18.9	18.4	18.4	18.4	18.9	19.4	18.9	18.9	19.4	19.4	19.4
87.5°	9.0	9.3	9.3	9.3	9.3	9.2	9.1	9.4	8.9	9.2	8.6
90°	11.2	11.0	10.8	10.6	10.5	10.1	9.7	9.2	8.7	8.2	7.5
92.5°	11.2	11.1	10.9	10.9	10.7	10.5	10.3	10.1	9.8	9.6	9.2
95°	17.7	17.9	18.0	18.1	18.1	18.0	17.5	17.0	16.6	16.2	15.4
97.5°	23.8	23.6	23.5	23.4	23.3	23.1	22.7	22.3	21.9	21.5	20.1
100°	27.7	27.5	27.3	27.2	26.9	26.5	25.7	25.0	24.3	23.5	22.0
102.5°	29.7	29.4	29.2	28.9	28.7	28.0	27.1	26.1	25.2	24.2	37.3
105°	31.4	31.1	30.7	30.3	29.9	29.2	28.3	27.3	26.2	25.2	50.3
107.5°	32.3	31.9	31.6	31.2	30.9	31.2	32.2	33.3	34.3	35.3	65.4
110°	32.6	32.3	31.9	31.5	31.2	35.6	44.8	53.9	63.1	72.3	98.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	33.0	32.7	32.4	32.1	31.8	48.4	81.9	115.4	148.9	182.5	189.0
115°	33.9	40.5	47.1	53.7	60.4	84.9	127.5	170.0	212.5	255.1	252.8
117.5°	138.4	160.2	181.9	203.6	225.4	241.4	251.7	262.0	272.3	282.5	281.0
120°	252.2	264.6	277.0	289.4	301.8	307.4	306.3	305.2	304.1	303.0	301.3
122.5°	314.7	317.1	319.5	321.9	324.3	325.2	324.6	323.8	323.2	322.6	320.8
125°	353.5	353.2	352.9	352.7	352.4	351.9	351.3	350.6	350.0	349.4	347.6
127.5°	378.0	377.9	377.9	377.8	377.7	377.2	376.3	375.3	374.4	373.5	372.2
130°	393.2	393.2	393.3	393.4	393.6	393.1	392.1	391.0	390.1	389.0	388.0
132.5°	408.1	408.1	408.2	408.3	408.4	408.1	407.2	406.3	405.4	404.6	403.5
135°	429.5	429.8	429.9	430.1	430.3	429.9	429.0	428.1	427.1	426.2	425.4
137.5°	449.2	449.5	449.7	450.0	450.4	450.1	449.2	448.3	447.4	446.5	445.5
140°	461.4	461.8	462.3	462.7	463.2	463.0	462.2	461.4	460.6	459.7	458.7
142.5°	473.2	473.7	474.2	474.7	475.2	475.0	474.2	473.5	472.7	472.0	470.8
145°	489.9	490.4	490.8	491.3	491.7	491.6	491.0	490.4	489.7	489.1	487.5
147.5°	504.5	504.9	505.3	505.7	506.0	506.0	505.6	505.1	504.6	504.1	502.6
150°	513.5	513.9	514.4	514.8	515.3	515.2	514.7	514.1	513.6	513.0	511.6
152.5°	521.1	521.7	522.3	522.9	523.5	523.6	523.0	522.4	521.9	521.3	519.9
155°	531.6	532.4	533.1	533.9	534.6	534.7	534.2	533.6	533.1	532.5	531.4
157.5°	541.3	542.0	542.7	543.4	544.2	544.2	543.6	543.0	542.3	541.8	541.0
160°	546.9	547.6	548.3	548.9	549.5	549.5	549.0	548.4	548.0	547.4	546.8
162.5°	551.6	552.4	553.2	554.0	554.8	554.8	554.2	553.6	552.9	552.3	551.8
165°	558.5	559.2	559.8	560.5	561.1	561.1	560.5	559.8	559.2	558.5	558.3
167.5°	562.9	563.7	564.6	565.4	566.3	566.3	565.7	565.0	564.4	563.7	563.5
170°	565.5	566.4	567.2	568.0	568.9	568.9	568.3	567.7	567.0	566.4	566.2
172.5°	567.5	568.4	569.2	570.1	570.8	570.9	570.3	569.7	569.0	568.4	568.2
175°	569.3	570.2	571.1	572.0	573.0	573.1	572.4	571.8	571.2	570.5	570.3
177.5°	570.4	571.0	571.6	572.4	573.0	573.1	572.6	572.0	571.6	571.0	570.9
180°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1548.9	1545.5	1542.6	1535.0	1531.2	1522.8	1521.5	1521.1	1510.2	1499.7	1496.7
5°	1602.1	1593.7	1581.0	1566.4	1551.1	1535.3	1524.8	1516.4	1495.4	1475.4	1463.9
7.5°	1655.7	1637.6	1615.9	1588.0	1564.8	1538.7	1519.3	1502.0	1472.2	1443.6	1424.3
10°	1695.7	1666.2	1637.3	1598.9	1569.0	1539.5	1512.2	1488.6	1454.9	1417.1	1390.3
12.5°	1720.5	1688.1	1648.2	1610.7	1571.9	1534.5	1497.9	1467.5	1428.0	1388.9	1357.0
15°	1754.0	1719.3	1671.0	1617.3	1567.4	1518.5	1476.5	1438.6	1387.1	1340.3	1301.4
17.5°	1781.5	1733.7	1681.8	1619.8	1561.9	1499.8	1445.7	1397.3	1340.0	1283.6	1237.7
20°	1790.3	1743.0	1683.1	1621.0	1552.7	1479.6	1421.3	1368.7	1307.2	1245.7	1193.2
22.5°	1784.8	1748.0	1681.3	1607.1	1537.2	1460.7	1394.8	1333.8	1265.6	1202.8	1141.9
25°	1747.7	1735.0	1672.0	1591.0	1511.2	1422.4	1346.1	1279.4	1201.6	1134.3	1068.0
27.5°	1661.2	1688.4	1649.3	1563.1	1474.3	1379.0	1293.3	1217.3	1136.6	1060.9	994.9
30°	1577.9	1640.5	1623.7	1543.7	1444.4	1350.8	1254.7	1175.3	1089.1	1011.3	946.1
32.5°	1464.0	1567.3	1583.7	1516.9	1414.1	1311.3	1210.5	1131.6	1041.6	959.6	896.0
35°	1282.5	1437.0	1508.0	1465.5	1362.4	1251.5	1147.4	1055.4	965.0	884.1	821.0
37.5°	1066.0	1276.5	1394.8	1397.8	1303.2	1187.9	1074.6	983.3	890.7	811.3	743.0
40°	925.6	1153.7	1307.7	1341.9	1262.0	1137.4	1022.9	929.8	839.4	761.6	683.3
42.5°	799.5	1026.7	1216.1	1275.5	1212.0	1088.2	973.3	876.0	788.1	714.5	634.5
45°	646.5	845.2	1053.8	1160.1	1124.8	1010.3	888.8	796.3	713.8	650.2	573.5
47.5°	545.4	685.4	887.3	1030.9	1030.3	925.7	806.3	717.7	641.1	581.5	519.4
50°	487.7	609.7	780.5	943.5	957.1	869.3	755.8	668.0	596.6	534.0	484.1
52.5°	436.0	536.5	690.1	846.4	885.3	809.2	699.1	618.1	548.7	491.2	448.4
55°	368.4	446.2	562.9	709.1	767.9	714.3	616.6	540.9	484.7	436.3	399.5
57.5°	311.7	370.0	463.7	581.3	649.9	616.2	535.5	474.0	425.9	382.1	353.1
60°	275.9	323.8	403.1	501.5	577.1	553.5	484.7	427.3	386.3	348.5	321.2
62.5°	242.3	283.4	351.4	431.2	500.6	490.8	434.6	386.5	350.6	316.1	292.9
65°	195.0	225.0	278.1	340.6	396.3	401.1	360.6	328.0	296.0	268.6	248.1
67.5°	155.3	174.8	212.2	264.9	306.7	321.5	296.8	272.0	246.5	225.4	207.6
70°	130.9	146.6	174.0	216.6	254.9	270.7	256.5	237.0	215.0	197.6	182.4
72.5°	106.1	121.4	141.6	172.9	205.7	222.8	217.9	203.8	185.9	171.6	157.2
75°	79.9	84.6	98.3	119.3	145.0	159.8	163.5	156.1	141.9	130.9	122.5
77.5°	59.1	61.9	68.4	79.5	96.3	109.4	114.8	113.9	104.2	97.8	89.9
80°	47.3	48.9	52.0	56.8	69.4	82.5	86.2	86.2	79.4	76.8	68.8
82.5°	36.0	37.1	39.0	41.6	47.5	58.9	63.1	63.9	59.6	56.2	49.9
85°	20.5	20.0	21.0	22.6	23.7	26.8	33.1	34.1	33.1	28.9	27.3
87.5°	8.5	8.8	8.6	8.0	8.2	8.5	10.4	12.3	10.8	9.7	9.1
90°	6.8	6.1	5.3	4.4	3.4	2.5	1.4	0.4	1.4	2.5	3.4
92.5°	8.9	8.5	8.2	8.0	8.1	8.2	8.2	8.3	8.2	8.2	8.1
95°	14.8	14.2	13.5	14.7	17.7	20.8	23.8	26.9	23.8	20.8	17.7
97.5°	18.6	17.1	15.6	19.2	27.7	36.3	44.8	53.3	44.8	36.3	27.7
100°	20.4	18.9	17.3	22.8	35.4	48.0	60.6	73.2	60.6	48.0	35.4
102.5°	50.4	63.5	76.4	84.4	87.0	89.7	92.4	95.0	92.4	89.7	87.0
105°	75.4	100.4	125.6	136.7	134.0	131.2	128.4	125.6	128.4	131.2	134.0
107.5°	95.5	125.6	155.6	169.5	167.3	165.1	162.9	160.7	162.9	165.1	167.3
110°	125.5	152.0	178.6	190.8	188.9	187.0	185.1	183.2	185.1	187.0	188.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	195.6	202.2	208.7	211.1	209.5	207.7	206.0	204.3	206.0	207.7	209.5
115°	250.5	248.2	245.9	244.0	242.4	240.8	239.2	237.7	239.2	240.8	242.4
117.5°	279.4	277.8	276.2	274.6	272.8	271.1	269.3	267.6	269.3	271.1	272.8
120°	299.8	298.1	296.4	294.9	293.5	292.2	290.7	289.4	290.7	292.2	293.5
122.5°	318.9	317.1	315.4	313.7	312.3	310.9	309.3	307.9	309.3	310.9	312.3
125°	345.9	344.1	342.4	340.9	339.7	338.5	337.3	336.1	337.3	338.5	339.7
127.5°	370.9	369.6	368.3	366.9	365.6	364.3	363.0	361.6	363.0	364.3	365.6
130°	387.0	386.0	385.0	383.7	382.3	380.8	379.3	377.9	379.3	380.8	382.3
132.5°	402.6	401.6	400.5	399.4	398.2	396.9	395.6	394.4	395.6	396.9	398.2
135°	424.6	423.7	422.9	421.8	420.3	418.8	417.4	415.9	417.4	418.8	420.3
137.5°	444.7	443.7	442.8	441.7	440.7	439.7	438.6	437.7	438.6	439.7	440.7
140°	457.7	456.7	455.7	454.8	454.1	453.4	452.6	451.9	452.6	453.4	454.1
142.5°	469.6	468.5	467.3	466.4	465.7	465.1	464.5	463.7	464.5	465.1	465.7
145°	485.9	484.4	482.8	482.1	482.2	482.3	482.4	482.4	482.4	482.3	482.2
147.5°	501.1	499.5	498.0	497.3	497.7	498.0	498.4	498.8	498.4	498.0	497.7
150°	510.1	508.7	507.2	506.8	507.4	508.0	508.7	509.3	508.7	508.0	507.4
152.5°	518.6	517.1	515.7	515.4	516.1	516.8	517.5	518.2	517.5	516.8	516.1
155°	530.3	529.2	528.1	527.9	528.8	529.6	530.4	531.2	530.4	529.6	528.8
157.5°	540.2	539.4	538.7	538.6	539.3	540.0	540.7	541.4	540.7	540.0	539.3
160°	546.3	545.7	545.2	545.2	545.7	546.3	546.8	547.4	546.8	546.3	545.7
162.5°	551.4	550.9	550.4	550.5	551.0	551.5	552.1	552.6	552.1	551.5	551.0
165°	557.9	557.7	557.5	557.5	558.1	558.6	559.2	559.8	559.2	558.6	558.1
167.5°	563.2	562.9	562.7	562.8	563.4	564.0	564.5	565.1	564.5	564.0	563.4
170°	566.0	565.9	565.6	565.9	566.4	567.0	567.5	568.0	567.5	567.0	566.4
172.5°	568.0	567.8	567.6	567.8	568.4	568.9	569.5	570.1	569.5	568.9	568.4
175°	570.1	570.0	569.8	570.0	570.7	571.3	572.0	572.6	572.0	571.3	570.7
177.5°	570.8	570.8	570.7	570.9	571.5	572.0	572.5	573.0	572.5	572.0	571.5
180°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3



TEST NUMBER: P331711-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1491.3	1488.4	1482.9	1474.5	1469.4	1460.6	1454.7	1458.1	1458.9	1458.1	1457.2
5°	1451.2	1440.2	1425.0	1410.2	1396.5	1381.9	1373.4	1369.8	1362.4	1358.2	1356.1
7.5°	1402.8	1383.8	1362.2	1336.6	1314.8	1292.0	1280.3	1274.5	1259.5	1251.3	1244.1
10°	1366.6	1336.6	1315.1	1281.4	1261.0	1231.0	1210.5	1211.0	1190.5	1178.9	1170.5
12.5°	1326.7	1293.8	1257.9	1227.6	1199.1	1175.0	1150.4	1140.3	1118.6	1107.5	1084.7
15°	1260.4	1222.1	1184.2	1143.2	1114.3	1077.0	1041.2	997.6	962.4	931.9	923.5
17.5°	1188.1	1140.6	1102.6	1054.5	1005.0	942.2	900.8	875.4	854.2	838.1	826.2
20°	1138.5	1090.1	1049.6	977.2	910.4	867.8	837.3	817.8	795.8	778.5	769.0
22.5°	1086.3	1035.9	980.7	899.8	847.7	813.6	786.4	764.1	749.1	735.5	726.9
25°	1012.3	957.1	866.3	810.5	768.4	732.7	713.8	700.1	684.4	666.0	657.5
27.5°	934.1	846.4	781.1	739.7	699.5	676.3	659.3	638.8	624.7	616.5	607.7
30°	875.7	787.9	736.9	691.7	663.3	637.5	617.6	606.0	592.4	578.2	572.4
32.5°	810.5	740.4	691.5	653.9	625.0	603.1	587.3	568.6	558.7	550.0	537.9
35°	729.5	676.4	631.8	601.3	574.0	556.1	537.7	526.6	508.8	501.5	496.7
37.5°	661.0	615.0	581.6	549.5	527.8	508.0	496.8	479.3	471.5	461.3	451.3
40°	622.3	577.1	545.1	518.8	494.6	479.9	465.7	451.5	440.0	435.2	423.1
42.5°	582.8	546.1	514.0	485.1	469.0	453.4	435.5	425.0	413.0	405.4	397.9
45°	528.2	495.7	468.3	444.7	426.8	410.5	398.9	381.6	374.8	359.5	353.2
47.5°	480.3	450.0	424.0	401.5	384.0	373.4	356.5	342.9	332.0	322.7	314.5
50°	446.2	421.0	395.8	375.8	360.0	344.8	327.5	320.6	303.8	299.0	294.4
52.5°	415.1	391.2	368.0	348.5	332.7	317.9	302.6	293.7	282.3	277.7	274.2
55°	371.6	348.5	326.4	309.0	293.3	278.1	268.6	257.5	252.3	248.6	244.4
57.5°	327.9	307.0	290.2	272.6	256.7	244.6	233.7	227.0	221.6	216.7	211.8
60°	300.2	280.1	264.9	248.6	232.3	222.4	213.9	206.0	199.7	192.3	190.3
62.5°	270.7	253.3	239.2	223.4	209.2	200.0	192.0	184.6	177.1	166.3	163.3
65°	230.2	216.6	201.8	188.7	176.1	167.2	155.6	147.2	144.0	143.0	142.4
67.5°	193.6	180.7	168.1	154.6	143.1	134.9	129.0	127.7	125.5	124.8	123.4
70°	169.2	157.2	144.6	131.9	120.9	119.3	117.2	115.1	112.5	111.5	110.4
72.5°	147.3	134.9	122.2	112.2	107.4	105.4	103.3	101.2	99.4	98.4	97.8
75°	113.0	101.5	93.0	89.4	86.7	85.2	82.0	80.4	79.4	77.8	77.2
77.5°	81.4	74.9	71.0	68.7	65.9	64.2	62.4	60.8	59.7	59.4	58.5
80°	62.0	58.9	56.2	53.1	52.0	49.9	49.4	47.8	48.3	46.8	46.8
82.5°	48.2	44.1	41.9	40.5	39.5	37.7	37.2	36.4	36.6	35.4	35.4
85°	24.7	23.7	22.6	21.5	21.5	20.0	20.5	20.0	20.0	18.9	18.4
87.5°	8.9	8.6	7.9	8.1	8.2	7.9	8.1	7.8	7.8	7.9	7.5
90°	4.4	5.3	6.1	6.8	7.5	8.2	8.7	9.2	9.7	10.1	10.5
92.5°	8.0	8.2	8.5	8.9	9.2	9.6	9.8	10.1	10.3	10.5	10.7
95°	14.7	13.5	14.2	14.8	15.4	16.2	16.6	17.0	17.5	18.0	18.1
97.5°	19.2	15.6	17.1	18.6	20.1	21.5	21.9	22.3	22.7	23.1	23.3
100°	22.8	17.3	18.9	20.4	22.0	23.5	24.3	25.0	25.7	26.5	26.9
102.5°	84.4	76.4	63.5	50.4	37.3	24.2	25.2	26.1	27.1	28.0	28.7
105°	136.7	125.6	100.4	75.4	50.3	25.2	26.2	27.3	28.3	29.2	29.9
107.5°	169.5	155.6	125.6	95.5	65.4	35.3	34.3	33.3	32.2	31.2	30.9
110°	190.8	178.6	152.0	125.5	98.9	72.3	63.1	53.9	44.8	35.6	31.2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	211.1	208.7	202.2	195.6	189.0	182.5	148.9	115.4	81.9	48.4	31.8
115°	244.0	245.9	248.2	250.5	252.8	255.1	212.5	170.0	127.5	84.9	60.4
117.5°	274.6	276.2	277.8	279.4	281.0	282.5	272.3	262.0	251.7	241.4	225.4
120°	294.9	296.4	298.1	299.8	301.3	303.0	304.1	305.2	306.3	307.4	301.8
122.5°	313.7	315.4	317.1	318.9	320.8	322.6	323.2	323.8	324.6	325.2	324.3
125°	340.9	342.4	344.1	345.9	347.6	349.4	350.0	350.6	351.3	351.9	352.4
127.5°	366.9	368.3	369.6	370.9	372.2	373.5	374.4	375.3	376.3	377.2	377.7
130°	383.7	385.0	386.0	387.0	388.0	389.0	390.1	391.0	392.1	393.1	393.6
132.5°	399.4	400.5	401.6	402.6	403.5	404.6	405.4	406.3	407.2	408.1	408.4
135°	421.8	422.9	423.7	424.6	425.4	426.2	427.1	428.1	429.0	429.9	430.3
137.5°	441.7	442.8	443.7	444.7	445.5	446.5	447.4	448.3	449.2	450.1	450.4
140°	454.8	455.7	456.7	457.7	458.7	459.7	460.6	461.4	462.2	463.0	463.2
142.5°	466.4	467.3	468.5	469.6	470.8	472.0	472.7	473.5	474.2	475.0	475.2
145°	482.1	482.8	484.4	485.9	487.5	489.1	489.7	490.4	491.0	491.6	491.7
147.5°	497.3	498.0	499.5	501.1	502.6	504.1	504.6	505.1	505.6	506.0	506.0
150°	506.8	507.2	508.7	510.1	511.6	513.0	513.6	514.1	514.7	515.2	515.3
152.5°	515.4	515.7	517.1	518.6	519.9	521.3	521.9	522.4	523.0	523.6	523.5
155°	527.9	528.1	529.2	530.3	531.4	532.5	533.1	533.6	534.2	534.7	534.6
157.5°	538.6	538.7	539.4	540.2	541.0	541.8	542.3	543.0	543.6	544.2	544.2
160°	545.2	545.2	545.7	546.3	546.8	547.4	548.0	548.4	549.0	549.5	549.5
162.5°	550.5	550.4	550.9	551.4	551.8	552.3	552.9	553.6	554.2	554.8	554.8
165°	557.5	557.5	557.7	557.9	558.3	558.5	559.2	559.8	560.5	561.1	561.1
167.5°	562.8	562.7	562.9	563.2	563.5	563.7	564.4	565.0	565.7	566.3	566.3
170°	565.9	565.6	565.9	566.0	566.2	566.4	567.0	567.7	568.3	568.9	568.9
172.5°	567.8	567.6	567.8	568.0	568.2	568.4	569.0	569.7	570.3	570.9	570.8
175°	570.0	569.8	570.0	570.1	570.3	570.5	571.2	571.8	572.4	573.1	573.0
177.5°	570.9	570.7	570.8	570.8	570.9	571.0	571.6	572.0	572.6	573.1	573.0
180°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3



TEST NUMBER: P331711-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1452.6	1453.4	1452.1	1453.0	1452.1	1453.4	1452.6	1457.2	1458.1	1458.9	1458.1
5°	1353.4	1347.2	1346.1	1344.6	1346.1	1347.2	1353.4	1356.1	1358.2	1362.4	1369.8
7.5°	1235.1	1234.1	1231.5	1227.9	1231.5	1234.1	1235.1	1244.1	1251.3	1259.5	1274.5
10°	1159.0	1156.3	1155.9	1152.1	1155.9	1156.3	1159.0	1170.5	1178.9	1190.5	1211.0
12.5°	1069.8	1052.9	1051.1	1042.0	1051.1	1052.9	1069.8	1084.7	1107.5	1118.6	1140.3
15°	910.9	907.8	897.2	890.4	897.2	907.8	910.9	923.5	931.9	962.4	997.6
17.5°	820.1	809.8	806.5	805.0	806.5	809.8	820.1	826.2	838.1	854.2	875.4
20°	761.6	752.2	750.6	749.6	750.6	752.2	761.6	769.0	778.5	795.8	817.8
22.5°	721.3	711.4	707.3	704.1	707.3	711.4	721.3	726.9	735.5	749.1	764.1
25°	652.3	648.6	646.5	645.5	646.5	648.6	652.3	657.5	666.0	684.4	700.1
27.5°	598.3	590.3	588.7	586.0	588.7	590.3	598.3	607.7	616.5	624.7	638.8
30°	567.7	565.1	561.3	558.2	561.3	565.1	567.7	572.4	578.2	592.4	606.0
32.5°	531.5	529.3	526.0	524.6	526.0	529.3	531.5	537.9	550.0	558.7	568.6
35°	491.5	484.1	480.9	476.2	480.9	484.1	491.5	496.7	501.5	508.8	526.6
37.5°	449.1	445.2	440.8	442.4	440.8	445.2	449.1	451.3	461.3	471.5	479.3
40°	416.3	413.7	412.6	412.1	412.6	413.7	416.3	423.1	435.2	440.0	451.5
42.5°	390.2	382.9	380.2	380.1	380.2	382.9	390.2	397.9	405.4	413.0	425.0
45°	350.6	343.7	339.1	339.5	339.1	343.7	350.6	353.2	359.5	374.8	381.6
47.5°	310.0	309.8	306.9	307.8	306.9	309.8	310.0	314.5	322.7	332.0	342.9
50°	290.7	287.5	285.4	285.9	285.4	287.5	290.7	294.4	299.0	303.8	320.6
52.5°	272.2	269.4	267.8	270.0	267.8	269.4	272.2	274.2	277.7	282.3	293.7
55°	241.8	238.6	238.1	237.6	238.1	238.6	241.8	244.4	248.6	252.3	257.5
57.5°	207.9	205.7	202.6	201.2	202.6	205.7	207.9	211.8	216.7	221.6	227.0
60°	183.5	179.3	174.0	173.5	174.0	179.3	183.5	190.3	192.3	199.7	206.0
62.5°	161.1	160.3	159.2	159.1	159.2	160.3	161.1	163.3	166.3	177.1	184.6
65°	141.4	140.9	141.4	141.9	141.4	140.9	141.4	142.4	143.0	144.0	147.2
67.5°	123.2	122.2	121.3	121.8	121.3	122.2	123.2	123.4	124.8	125.5	127.7
70°	109.3	108.8	108.3	108.3	108.3	108.8	109.3	110.4	111.5	112.5	115.1
72.5°	95.9	95.8	95.2	94.8	95.2	95.8	95.9	97.8	98.4	99.4	101.2
75°	76.8	75.7	75.7	75.7	75.7	75.7	76.8	77.2	77.8	79.4	80.4
77.5°	58.5	57.9	57.4	57.0	57.4	57.9	58.5	58.5	59.4	59.7	60.8
80°	46.3	45.7	45.2	45.2	45.2	45.7	46.3	46.8	46.8	48.3	47.8
82.5°	35.3	34.8	34.7	34.3	34.7	34.8	35.3	35.4	35.4	36.6	36.4
85°	18.9	19.4	18.9	20.0	18.9	19.4	18.9	18.4	18.9	20.0	20.0
87.5°	7.6	7.2	7.7	7.3	7.7	7.2	7.6	7.5	7.9	7.8	7.8
90°	10.6	10.8	11.0	11.2	11.0	10.8	10.6	10.5	10.1	9.7	9.2
92.5°	10.9	10.9	11.1	11.2	11.1	10.9	10.9	10.7	10.5	10.3	10.1
95°	18.1	18.0	17.9	17.7	17.9	18.0	18.1	18.1	18.0	17.5	17.0
97.5°	23.4	23.5	23.6	23.8	23.6	23.5	23.4	23.3	23.1	22.7	22.3
100°	27.2	27.3	27.5	27.7	27.5	27.3	27.2	26.9	26.5	25.7	25.0
102.5°	28.9	29.2	29.4	29.7	29.4	29.2	28.9	28.7	28.0	27.1	26.1
105°	30.3	30.7	31.1	31.4	31.1	30.7	30.3	29.9	29.2	28.3	27.3
107.5°	31.2	31.6	31.9	32.3	31.9	31.6	31.2	30.9	31.2	32.2	33.3
110°	31.5	31.9	32.3	32.6	32.3	31.9	31.5	31.2	35.6	44.8	53.9



TEST NUMBER: P331711-927

CATALOG NUMBER: SA2XXRDIP-C865D530U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	32.1	32.4	32.7	33.0	32.7	32.4	32.1	31.8	48.4	81.9	115.4
115°	53.7	47.1	40.5	33.9	40.5	47.1	53.7	60.4	84.9	127.5	170.0
117.5°	203.6	181.9	160.2	138.4	160.2	181.9	203.6	225.4	241.4	251.7	262.0
120°	289.4	277.0	264.6	252.2	264.6	277.0	289.4	301.8	307.4	306.3	305.2
122.5°	321.9	319.5	317.1	314.7	317.1	319.5	321.9	324.3	325.2	324.6	323.8
125°	352.7	352.9	353.2	353.5	353.2	352.9	352.7	352.4	351.9	351.3	350.6
127.5°	377.8	377.9	377.9	378.0	377.9	377.9	377.8	377.7	377.2	376.3	375.3
130°	393.4	393.3	393.2	393.2	393.2	393.3	393.4	393.6	393.1	392.1	391.0
132.5°	408.3	408.2	408.1	408.1	408.1	408.2	408.3	408.4	408.1	407.2	406.3
135°	430.1	429.9	429.8	429.5	429.8	429.9	430.1	430.3	429.9	429.0	428.1
137.5°	450.0	449.7	449.5	449.2	449.5	449.7	450.0	450.4	450.1	449.2	448.3
140°	462.7	462.3	461.8	461.4	461.8	462.3	462.7	463.2	463.0	462.2	461.4
142.5°	474.7	474.2	473.7	473.2	473.7	474.2	474.7	475.2	475.0	474.2	473.5
145°	491.3	490.8	490.4	489.9	490.4	490.8	491.3	491.7	491.6	491.0	490.4
147.5°	505.7	505.3	504.9	504.5	504.9	505.3	505.7	506.0	506.0	505.6	505.1
150°	514.8	514.4	513.9	513.5	513.9	514.4	514.8	515.3	515.2	514.7	514.1
152.5°	522.9	522.3	521.7	521.1	521.7	522.3	522.9	523.5	523.6	523.0	522.4
155°	533.9	533.1	532.4	531.6	532.4	533.1	533.9	534.6	534.7	534.2	533.6
157.5°	543.4	542.7	542.0	541.3	542.0	542.7	543.4	544.2	544.2	543.6	543.0
160°	548.9	548.3	547.6	546.9	547.6	548.3	548.9	549.5	549.5	549.0	548.4
162.5°	554.0	553.2	552.4	551.6	552.4	553.2	554.0	554.8	554.8	554.2	553.6
165°	560.5	559.8	559.2	558.5	559.2	559.8	560.5	561.1	561.1	560.5	559.8
167.5°	565.4	564.6	563.7	562.9	563.7	564.6	565.4	566.3	566.3	565.7	565.0
170°	568.0	567.2	566.4	565.5	566.4	567.2	568.0	568.9	568.9	568.3	567.7
172.5°	570.1	569.2	568.4	567.5	568.4	569.2	570.1	570.8	570.9	570.3	569.7
175°	572.0	571.1	570.2	569.3	570.2	571.1	572.0	573.0	573.1	572.4	571.8
177.5°	572.4	571.6	571.0	570.4	571.0	571.6	572.4	573.0	573.1	572.6	572.0
180°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3



TEST NUMBER: P331711-927

CATALOG NUMBER: SA2XXRDIP-C865D530U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1454.7	1460.6	1469.4	1474.5	1482.9	1488.4	1491.3	1496.7	1499.7	1510.2	1521.1
5°	1373.4	1381.9	1396.5	1410.2	1425.0	1440.2	1451.2	1463.9	1475.4	1495.4	1516.4
7.5°	1280.3	1292.0	1314.8	1336.6	1362.2	1383.8	1402.8	1424.3	1443.6	1472.2	1502.0
10°	1210.5	1231.0	1261.0	1281.4	1315.1	1336.6	1366.6	1390.3	1417.1	1454.9	1488.6
12.5°	1150.4	1175.0	1199.1	1227.6	1257.9	1293.8	1326.7	1357.0	1388.9	1428.0	1467.5
15°	1041.2	1077.0	1114.3	1143.2	1184.2	1222.1	1260.4	1301.4	1340.3	1387.1	1438.6
17.5°	900.8	942.2	1005.0	1054.5	1102.6	1140.6	1188.1	1237.7	1283.6	1340.0	1397.3
20°	837.3	867.8	910.4	977.2	1049.6	1090.1	1138.5	1193.2	1245.7	1307.2	1368.7
22.5°	786.4	813.6	847.7	899.8	980.7	1035.9	1086.3	1141.9	1202.8	1265.6	1333.8
25°	713.8	732.7	768.4	810.5	866.3	957.1	1012.3	1068.0	1134.3	1201.6	1279.4
27.5°	659.3	676.3	699.5	739.7	781.1	846.4	934.1	994.9	1060.9	1136.6	1217.3
30°	617.6	637.5	663.3	691.7	736.9	787.9	875.7	946.1	1011.3	1089.1	1175.3
32.5°	587.3	603.1	625.0	653.9	691.5	740.4	810.5	896.0	959.6	1041.6	1131.6
35°	537.7	556.1	574.0	601.3	631.8	676.4	729.5	821.0	884.1	965.0	1055.4
37.5°	496.8	508.0	527.8	549.5	581.6	615.0	661.0	743.0	811.3	890.7	983.3
40°	465.7	479.9	494.6	518.8	545.1	577.1	622.3	683.3	761.6	839.4	929.8
42.5°	435.5	453.4	469.0	485.1	514.0	546.1	582.8	634.5	714.5	788.1	876.0
45°	398.9	410.5	426.8	444.7	468.3	495.7	528.2	573.5	650.2	713.8	796.3
47.5°	356.5	373.4	384.0	401.5	424.0	450.0	480.3	519.4	581.5	641.1	717.7
50°	327.5	344.8	360.0	375.8	395.8	421.0	446.2	484.1	534.0	596.6	668.0
52.5°	302.6	317.9	332.7	348.5	368.0	391.2	415.1	448.4	491.2	548.7	618.1
55°	268.6	278.1	293.3	309.0	326.4	348.5	371.6	399.5	436.3	484.7	540.9
57.5°	233.7	244.6	256.7	272.6	290.2	307.0	327.9	353.1	382.1	425.9	474.0
60°	213.9	222.4	232.3	248.6	264.9	280.1	300.2	321.2	348.5	386.3	427.3
62.5°	192.0	200.0	209.2	223.4	239.2	253.3	270.7	292.9	316.1	350.6	386.5
65°	155.6	167.2	176.1	188.7	201.8	216.6	230.2	248.1	268.6	296.0	328.0
67.5°	129.0	134.9	143.1	154.6	168.1	180.7	193.6	207.6	225.4	246.5	272.0
70°	117.2	119.3	120.9	131.9	144.6	157.2	169.2	182.4	197.6	215.0	237.0
72.5°	103.3	105.4	107.4	112.2	122.2	134.9	147.3	157.2	171.6	185.9	203.8
75°	82.0	85.2	86.7	89.4	93.0	101.5	113.0	122.5	130.9	141.9	156.1
77.5°	62.4	64.2	65.9	68.7	71.0	74.9	81.4	89.9	97.8	104.2	113.9
80°	49.4	49.9	52.0	53.1	56.2	58.9	62.0	68.8	76.8	79.4	86.2
82.5°	37.2	37.7	39.5	40.5	41.9	44.1	48.2	49.9	56.2	59.6	63.9
85°	20.5	20.0	21.5	21.5	22.6	23.7	24.7	27.3	28.9	33.1	34.1
87.5°	8.1	7.9	8.2	8.1	7.9	8.6	8.9	9.1	9.7	10.8	12.3
90°	8.7	8.2	7.5	6.8	6.1	5.3	4.4	3.4	2.5	1.4	0.4
92.5°	9.8	9.6	9.2	8.9	8.5	8.2	8.0	8.1	8.2	8.2	8.3
95°	16.6	16.2	15.4	14.8	14.2	13.5	14.7	17.7	20.8	23.8	26.9
97.5°	21.9	21.5	20.1	18.6	17.1	15.6	19.2	27.7	36.3	44.8	53.3
100°	24.3	23.5	22.0	20.4	18.9	17.3	22.8	35.4	48.0	60.6	73.2
102.5°	25.2	24.2	37.3	50.4	63.5	76.4	84.4	87.0	89.7	92.4	95.0
105°	26.2	25.2	50.3	75.4	100.4	125.6	136.7	134.0	131.2	128.4	125.6
107.5°	34.3	35.3	65.4	95.5	125.6	155.6	169.5	167.3	165.1	162.9	160.7
110°	63.1	72.3	98.9	125.5	152.0	178.6	190.8	188.9	187.0	185.1	183.2



TEST NUMBER: P331711-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	148.9	182.5	189.0	195.6	202.2	208.7	211.1	209.5	207.7	206.0	204.3
115°	212.5	255.1	252.8	250.5	248.2	245.9	244.0	242.4	240.8	239.2	237.7
117.5°	272.3	282.5	281.0	279.4	277.8	276.2	274.6	272.8	271.1	269.3	267.6
120°	304.1	303.0	301.3	299.8	298.1	296.4	294.9	293.5	292.2	290.7	289.4
122.5°	323.2	322.6	320.8	318.9	317.1	315.4	313.7	312.3	310.9	309.3	307.9
125°	350.0	349.4	347.6	345.9	344.1	342.4	340.9	339.7	338.5	337.3	336.1
127.5°	374.4	373.5	372.2	370.9	369.6	368.3	366.9	365.6	364.3	363.0	361.6
130°	390.1	389.0	388.0	387.0	386.0	385.0	383.7	382.3	380.8	379.3	377.9
132.5°	405.4	404.6	403.5	402.6	401.6	400.5	399.4	398.2	396.9	395.6	394.4
135°	427.1	426.2	425.4	424.6	423.7	422.9	421.8	420.3	418.8	417.4	415.9
137.5°	447.4	446.5	445.5	444.7	443.7	442.8	441.7	440.7	439.7	438.6	437.7
140°	460.6	459.7	458.7	457.7	456.7	455.7	454.8	454.1	453.4	452.6	451.9
142.5°	472.7	472.0	470.8	469.6	468.5	467.3	466.4	465.7	465.1	464.5	463.7
145°	489.7	489.1	487.5	485.9	484.4	482.8	482.1	482.2	482.3	482.4	482.4
147.5°	504.6	504.1	502.6	501.1	499.5	498.0	497.3	497.7	498.0	498.4	498.8
150°	513.6	513.0	511.6	510.1	508.7	507.2	506.8	507.4	508.0	508.7	509.3
152.5°	521.9	521.3	519.9	518.6	517.1	515.7	515.4	516.1	516.8	517.5	518.2
155°	533.1	532.5	531.4	530.3	529.2	528.1	527.9	528.8	529.6	530.4	531.2
157.5°	542.3	541.8	541.0	540.2	539.4	538.7	538.6	539.3	540.0	540.7	541.4
160°	548.0	547.4	546.8	546.3	545.7	545.2	545.2	545.7	546.3	546.8	547.4
162.5°	552.9	552.3	551.8	551.4	550.9	550.4	550.5	551.0	551.5	552.1	552.6
165°	559.2	558.5	558.3	557.9	557.7	557.5	557.5	558.1	558.6	559.2	559.8
167.5°	564.4	563.7	563.5	563.2	562.9	562.7	562.8	563.4	564.0	564.5	565.1
170°	567.0	566.4	566.2	566.0	565.9	565.6	565.9	566.4	567.0	567.5	568.0
172.5°	569.0	568.4	568.2	568.0	567.8	567.6	567.8	568.4	568.9	569.5	570.1
175°	571.2	570.5	570.3	570.1	570.0	569.8	570.0	570.7	571.3	572.0	572.6
177.5°	571.6	571.0	570.9	570.8	570.8	570.7	570.9	571.5	572.0	572.5	573.0
180°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3



TEST NUMBER: P331711-927

CATALOG NUMBER: SA2XXRDIP-C865D530U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1521.5	1522.8	1531.2	1535.0	1542.6	1545.5	1548.9	1548.1	1548.1	1549.7	1561.5
5°	1524.8	1535.3	1551.1	1566.4	1581.0	1593.7	1602.1	1610.5	1613.7	1628.9	1642.6
7.5°	1519.3	1538.7	1564.8	1588.0	1615.9	1637.6	1655.7	1672.0	1683.1	1705.3	1728.1
10°	1512.2	1539.5	1569.0	1598.9	1637.3	1666.2	1695.7	1718.2	1725.6	1758.7	1777.7
12.5°	1497.9	1534.5	1571.9	1610.7	1648.2	1688.1	1720.5	1743.0	1768.9	1798.6	1833.6
15°	1476.5	1518.5	1567.4	1617.3	1671.0	1719.3	1754.0	1793.4	1821.8	1854.4	1884.8
17.5°	1445.7	1499.8	1561.9	1619.8	1681.8	1733.7	1781.5	1819.2	1839.2	1857.8	1862.3
20°	1421.3	1479.6	1552.7	1621.0	1683.1	1743.0	1790.3	1821.8	1827.1	1827.6	1799.8
22.5°	1394.8	1460.7	1537.2	1607.1	1681.3	1748.0	1784.8	1798.3	1777.4	1741.8	1687.9
25°	1346.1	1422.4	1511.2	1591.0	1672.0	1735.0	1747.7	1724.0	1651.0	1574.2	1477.0
27.5°	1293.3	1379.0	1474.3	1563.1	1649.3	1688.4	1661.2	1575.9	1444.3	1329.9	1191.3
30°	1254.7	1350.8	1444.4	1543.7	1623.7	1640.5	1577.9	1452.3	1298.8	1126.4	988.2
32.5°	1210.5	1311.3	1414.1	1516.9	1583.7	1567.3	1464.0	1309.3	1129.3	959.9	829.3
35°	1147.4	1251.5	1362.4	1465.5	1508.0	1437.0	1282.5	1081.2	897.2	739.0	649.1
37.5°	1074.6	1187.9	1303.2	1397.8	1394.8	1276.5	1066.0	858.3	703.6	610.1	546.1
40°	1022.9	1137.4	1262.0	1341.9	1307.7	1153.7	925.6	729.5	616.6	541.9	495.1
42.5°	973.3	1088.2	1212.0	1275.5	1216.1	1026.7	799.5	645.9	552.6	494.4	456.5
45°	888.8	1010.3	1124.8	1160.1	1053.8	845.2	646.5	535.1	473.1	429.9	403.7
47.5°	806.3	925.7	1030.3	1030.9	887.3	685.4	545.4	463.1	410.1	376.8	357.7
50°	755.8	869.3	957.1	943.5	780.5	609.7	487.7	416.8	372.6	346.9	326.9
52.5°	699.1	809.2	885.3	846.4	690.1	536.5	436.0	376.4	339.8	317.5	299.6
55°	616.6	714.3	767.9	709.1	562.9	446.2	368.4	321.7	294.4	275.4	260.2
57.5°	535.5	616.2	649.9	581.3	463.7	370.0	311.7	276.6	249.5	235.9	228.0
60°	484.7	553.5	577.1	501.5	403.1	323.8	275.9	243.4	223.4	214.4	206.6
62.5°	434.6	490.8	500.6	431.2	351.4	283.4	242.3	214.8	201.5	193.0	185.5
65°	360.6	401.1	396.3	340.6	278.1	225.0	195.0	178.2	168.2	156.1	143.0
67.5°	296.8	321.5	306.7	264.9	212.2	174.8	155.3	142.5	130.2	118.7	115.7
70°	256.5	270.7	254.9	216.6	174.0	146.6	130.9	115.7	108.3	105.7	100.9
72.5°	217.9	222.8	205.7	172.9	141.6	121.4	106.1	97.5	93.6	91.3	88.3
75°	163.5	159.8	145.0	119.3	98.3	84.6	79.9	76.8	74.1	72.0	70.4
77.5°	114.8	109.4	96.3	79.5	68.4	61.9	59.1	57.4	56.2	55.1	53.5
80°	86.2	82.5	69.4	56.8	52.0	48.9	47.3	45.2	45.2	44.1	42.5
82.5°	63.1	58.9	47.5	41.6	39.0	37.1	36.0	34.7	34.3	34.5	33.4
85°	33.1	26.8	23.7	22.6	21.0	20.0	20.5	19.4	19.4	19.4	18.9
87.5°	10.4	8.5	8.2	8.0	8.6	8.8	8.5	8.6	9.2	8.9	9.4
90°	1.4	2.5	3.4	4.4	5.3	6.1	6.8	7.5	8.2	8.7	9.2
92.5°	8.2	8.2	8.1	8.0	8.2	8.5	8.9	9.2	9.6	9.8	10.1
95°	23.8	20.8	17.7	14.7	13.5	14.2	14.8	15.4	16.2	16.6	17.0
97.5°	44.8	36.3	27.7	19.2	15.6	17.1	18.6	20.1	21.5	21.9	22.3
100°	60.6	48.0	35.4	22.8	17.3	18.9	20.4	22.0	23.5	24.3	25.0
102.5°	92.4	89.7	87.0	84.4	76.4	63.5	50.4	37.3	24.2	25.2	26.1
105°	128.4	131.2	134.0	136.7	125.6	100.4	75.4	50.3	25.2	26.2	27.3
107.5°	162.9	165.1	167.3	169.5	155.6	125.6	95.5	65.4	35.3	34.3	33.3
110°	185.1	187.0	188.9	190.8	178.6	152.0	125.5	98.9	72.3	63.1	53.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	206.0	207.7	209.5	211.1	208.7	202.2	195.6	189.0	182.5	148.9	115.4
115°	239.2	240.8	242.4	244.0	245.9	248.2	250.5	252.8	255.1	212.5	170.0
117.5°	269.3	271.1	272.8	274.6	276.2	277.8	279.4	281.0	282.5	272.3	262.0
120°	290.7	292.2	293.5	294.9	296.4	298.1	299.8	301.3	303.0	304.1	305.2
122.5°	309.3	310.9	312.3	313.7	315.4	317.1	318.9	320.8	322.6	323.2	323.8
125°	337.3	338.5	339.7	340.9	342.4	344.1	345.9	347.6	349.4	350.0	350.6
127.5°	363.0	364.3	365.6	366.9	368.3	369.6	370.9	372.2	373.5	374.4	375.3
130°	379.3	380.8	382.3	383.7	385.0	386.0	387.0	388.0	389.0	390.1	391.0
132.5°	395.6	396.9	398.2	399.4	400.5	401.6	402.6	403.5	404.6	405.4	406.3
135°	417.4	418.8	420.3	421.8	422.9	423.7	424.6	425.4	426.2	427.1	428.1
137.5°	438.6	439.7	440.7	441.7	442.8	443.7	444.7	445.5	446.5	447.4	448.3
140°	452.6	453.4	454.1	454.8	455.7	456.7	457.7	458.7	459.7	460.6	461.4
142.5°	464.5	465.1	465.7	466.4	467.3	468.5	469.6	470.8	472.0	472.7	473.5
145°	482.4	482.3	482.2	482.1	482.8	484.4	485.9	487.5	489.1	489.7	490.4
147.5°	498.4	498.0	497.7	497.3	498.0	499.5	501.1	502.6	504.1	504.6	505.1
150°	508.7	508.0	507.4	506.8	507.2	508.7	510.1	511.6	513.0	513.6	514.1
152.5°	517.5	516.8	516.1	515.4	515.7	517.1	518.6	519.9	521.3	521.9	522.4
155°	530.4	529.6	528.8	527.9	528.1	529.2	530.3	531.4	532.5	533.1	533.6
157.5°	540.7	540.0	539.3	538.6	538.7	539.4	540.2	541.0	541.8	542.3	543.0
160°	546.8	546.3	545.7	545.2	545.2	545.7	546.3	546.8	547.4	548.0	548.4
162.5°	552.1	551.5	551.0	550.5	550.4	550.9	551.4	551.8	552.3	552.9	553.6
165°	559.2	558.6	558.1	557.5	557.5	557.7	557.9	558.3	558.5	559.2	559.8
167.5°	564.5	564.0	563.4	562.8	562.7	562.9	563.2	563.5	563.7	564.4	565.0
170°	567.5	567.0	566.4	565.9	565.6	565.9	566.0	566.2	566.4	567.0	567.7
172.5°	569.5	568.9	568.4	567.8	567.6	567.8	568.0	568.2	568.4	569.0	569.7
175°	572.0	571.3	570.7	570.0	569.8	570.0	570.1	570.3	570.5	571.2	571.8
177.5°	572.5	572.0	571.5	570.9	570.7	570.8	570.8	570.9	571.0	571.6	572.0
180°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1565.7	1571.2	1573.7	1573.7	1576.7	1575.4	1574.1
5°	1655.7	1665.7	1667.8	1677.3	1684.1	1682.0	1683.1
7.5°	1745.2	1761.3	1777.1	1784.4	1785.5	1789.7	1791.3
10°	1800.2	1813.4	1838.1	1834.4	1852.8	1863.3	1845.9
12.5°	1853.2	1871.0	1888.2	1892.8	1903.3	1906.6	1899.8
15°	1901.2	1910.7	1911.7	1909.1	1912.2	1909.6	1899.6
17.5°	1856.4	1841.0	1809.9	1795.2	1783.5	1766.3	1759.4
20°	1782.4	1737.2	1684.6	1663.6	1638.9	1590.5	1602.1
22.5°	1622.6	1571.1	1518.5	1457.1	1427.8	1382.0	1379.2
25°	1374.0	1285.2	1187.4	1119.0	1079.1	1033.4	1013.4
27.5°	1068.3	956.4	876.3	835.8	798.8	762.6	761.1
30°	867.3	783.2	721.1	686.4	663.8	648.6	651.8
32.5°	731.0	673.4	631.6	602.8	586.1	574.6	574.4
35°	597.6	558.2	531.4	519.3	507.2	498.8	499.3
37.5°	511.4	487.7	472.9	459.5	451.9	447.8	445.5
40°	467.3	447.8	436.3	428.4	422.1	416.3	415.3
42.5°	432.4	416.3	404.7	398.5	392.6	388.6	387.5
45°	383.7	370.6	360.0	353.2	350.6	346.9	346.9
47.5°	341.4	328.4	320.2	315.9	311.4	309.0	308.9
50°	312.8	302.8	295.4	292.8	289.1	287.5	287.0
52.5°	287.1	279.6	274.4	272.6	271.0	269.0	269.3
55°	252.3	248.1	246.0	244.4	241.8	238.6	240.7
57.5°	223.0	219.4	213.7	208.7	206.4	204.1	205.0
60°	202.4	195.0	187.7	181.9	180.3	175.5	175.5
62.5°	176.3	166.0	156.9	153.7	152.1	149.9	149.5
65°	135.6	131.4	129.3	127.2	126.1	126.1	125.1
67.5°	112.4	110.7	108.4	107.9	106.8	106.5	106.2
70°	99.3	97.2	96.2	95.7	94.6	95.1	93.6
72.5°	86.7	85.1	84.8	83.5	82.9	82.9	81.8
75°	68.4	68.4	67.8	67.3	66.2	65.7	66.2
77.5°	52.6	52.7	51.7	51.7	51.5	51.7	51.1
80°	42.1	42.5	42.1	41.5	41.0	41.5	41.0
82.5°	33.2	32.5	32.4	32.2	32.2	31.8	31.8
85°	18.9	19.4	18.9	18.4	18.4	18.4	18.9
87.5°	9.1	9.2	9.3	9.3	9.3	9.3	9.0
90°	9.7	10.1	10.5	10.6	10.8	11.0	11.2
92.5°	10.3	10.5	10.7	10.9	10.9	11.1	11.2
95°	17.5	18.0	18.1	18.1	18.0	17.9	17.7
97.5°	22.7	23.1	23.3	23.4	23.5	23.6	23.8
100°	25.7	26.5	26.9	27.2	27.3	27.5	27.7
102.5°	27.1	28.0	28.7	28.9	29.2	29.4	29.7
105°	28.3	29.2	29.9	30.3	30.7	31.1	31.4
107.5°	32.2	31.2	30.9	31.2	31.6	31.9	32.3
110°	44.8	35.6	31.2	31.5	31.9	32.3	32.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	81.9	48.4	31.8	32.1	32.4	32.7	33.0
115°	127.5	84.9	60.4	53.7	47.1	40.5	33.9
117.5°	251.7	241.4	225.4	203.6	181.9	160.2	138.4
120°	306.3	307.4	301.8	289.4	277.0	264.6	252.2
122.5°	324.6	325.2	324.3	321.9	319.5	317.1	314.7
125°	351.3	351.9	352.4	352.7	352.9	353.2	353.5
127.5°	376.3	377.2	377.7	377.8	377.9	377.9	378.0
130°	392.1	393.1	393.6	393.4	393.3	393.2	393.2
132.5°	407.2	408.1	408.4	408.3	408.2	408.1	408.1
135°	429.0	429.9	430.3	430.1	429.9	429.8	429.5
137.5°	449.2	450.1	450.4	450.0	449.7	449.5	449.2
140°	462.2	463.0	463.2	462.7	462.3	461.8	461.4
142.5°	474.2	475.0	475.2	474.7	474.2	473.7	473.2
145°	491.0	491.6	491.7	491.3	490.8	490.4	489.9
147.5°	505.6	506.0	506.0	505.7	505.3	504.9	504.5
150°	514.7	515.2	515.3	514.8	514.4	513.9	513.5
152.5°	523.0	523.6	523.5	522.9	522.3	521.7	521.1
155°	534.2	534.7	534.6	533.9	533.1	532.4	531.6
157.5°	543.6	544.2	544.2	543.4	542.7	542.0	541.3
160°	549.0	549.5	549.5	548.9	548.3	547.6	546.9
162.5°	554.2	554.8	554.8	554.0	553.2	552.4	551.6
165°	560.5	561.1	561.1	560.5	559.8	559.2	558.5
167.5°	565.7	566.3	566.3	565.4	564.6	563.7	562.9
170°	568.3	568.9	568.9	568.0	567.2	566.4	565.5
172.5°	570.3	570.9	570.8	570.1	569.2	568.4	567.5
175°	572.4	573.1	573.0	572.0	571.1	570.2	569.3
177.5°	572.6	573.1	573.0	572.4	571.6	571.0	570.4
180°	571.3	571.3	571.3	571.3	571.3	571.3	571.3

(END OF REPORT)