

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: P331675

Luminaire Tested: **SA2XXRDIP-C675D330U835-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331675
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-C675D330U835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

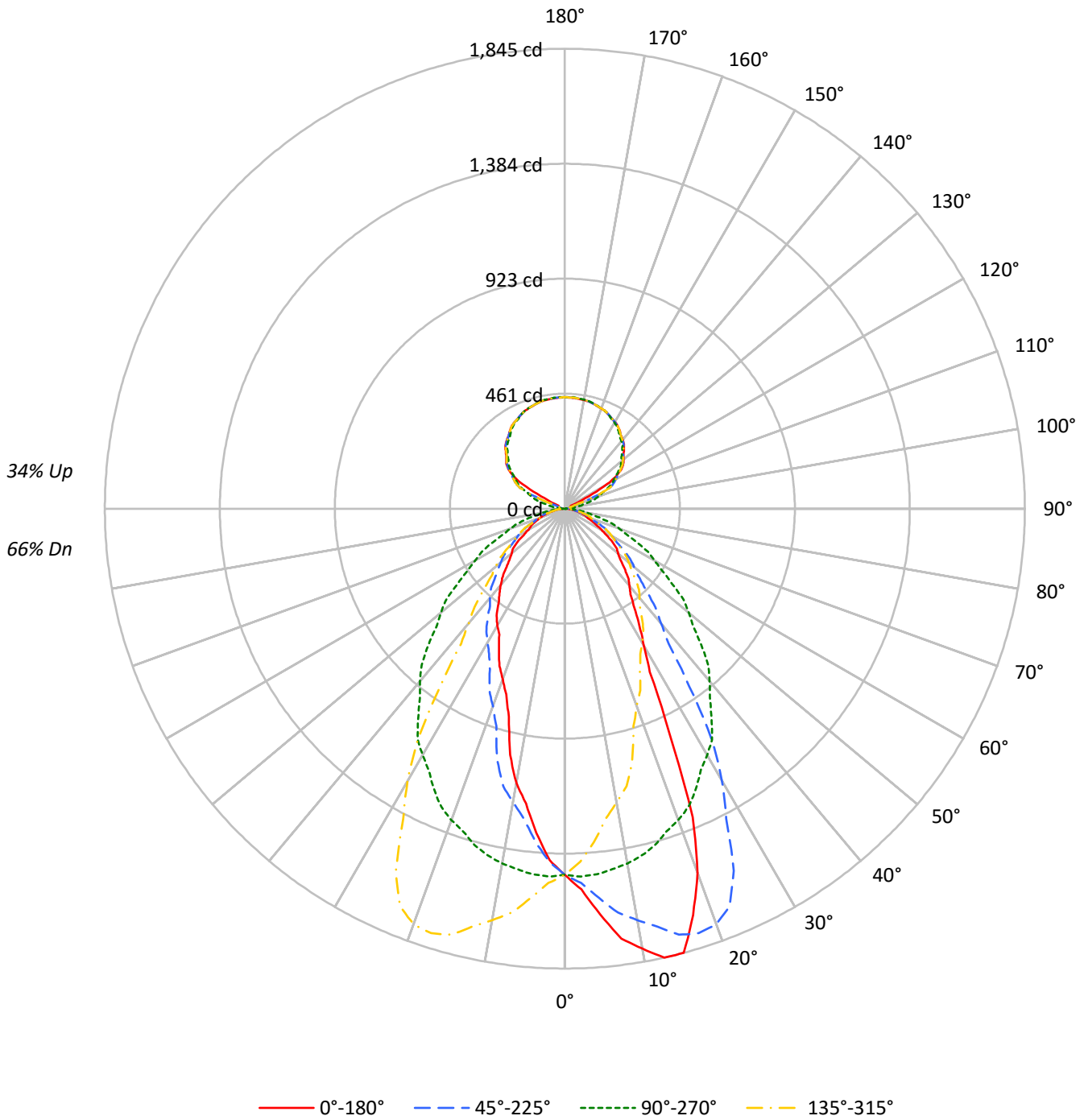
Lumens per Lamp: N/A
Luminaire Lumens: 3849.5 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 35
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	81	81	81	71	71	71	66
1	102	98	95	91	96	93	90	87	82	80	78	73	71	70	64	63	62	58
2	94	87	81	77	88	82	77	73	74	70	66	65	62	60	58	56	54	50
3	87	78	71	65	81	74	67	62	66	61	57	59	55	52	52	49	47	44
4	80	70	62	56	75	66	59	54	59	54	50	53	49	46	48	44	42	39
5	74	63	55	49	70	60	53	47	54	48	44	49	44	40	43	40	37	34
6	69	57	49	44	65	54	47	42	49	43	39	44	40	36	40	36	33	31
7	64	52	44	39	60	50	43	38	45	39	35	41	36	33	37	33	30	28
8	60	48	40	35	56	46	39	34	42	36	32	38	33	30	34	30	28	25
9	56	44	37	32	53	42	35	31	38	33	29	35	30	27	32	28	25	23
10	52	41	34	29	50	39	32	28	36	30	26	33	28	25	30	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	23720	23720	23720	23720
5°	26491	23869	21162	23869
10°	29391	23700	18344	23700
15°	30837	23353	14454	23353
20°	26734	22838	12507	22838
25°	17533	22133	11166	22133
30°	11801	21280	10107	21280
35°	9558	20203	9116	20203
40°	8500	19032	8435	19032
45°	7693	17657	7531	17657
50°	7001	16297	6975	16297
55°	6581	14787	6494	14787
60°	5506	13401	5438	13401
65°	4642	12168	5265	12168
70°	4291	10867	4966	10867
75°	4011	9457	4585	9457
80°	3701	7782	4082	7782
85°	3409	6150	3594	6150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	3.6
10°-20°	388.0	10.1
20°-30°	500.0	13.0
30°-40°	475.2	12.3
40°-50°	407.1	10.6
50°-60°	310.0	8.1
60°-70°	196.0	5.1
70°-80°	97.9	2.5
80°-90°	26.6	0.7
90°-100°	14.9	0.4
100°-110°	54.7	1.4
110°-120°	146.1	3.8
120°-130°	241.2	6.3
130°-140°	256.5	6.7
140°-150°	238.4	6.2
150°-160°	191.7	5.0
160°-170°	123.5	3.2
170°-180°	42.5	1.1
0°-30°	1027.3	26.7
0°-40°	1502.5	39.0
0°-60°	2219.6	57.7
0°-90°	2540.0	66.0
90°-120°	215.7	5.6
90°-150°	951.8	24.7
90°-180°	1309.0	34.0
0°-180°	3849.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1469	1469	1469	1469	1469	
5°	1634	1473	1306	1473	1634	161
15°	1845	1397	865	1397	1845	498
25°	984	1242	627	1242	984	467
35°	485	1025	462	1025	485	310
45°	337	773	330	773	337	261
55°	234	525	231	525	234	205
65°	122	318	138	318	122	124
75°	64	152	74	152	64	68
85°	18	33	19	33	18	20
90°	9	0	9	0	9	5
95°	14	21	14	21	14	13
105°	25	98	25	98	25	26
115°	26	186	26	186	26	66
125°	276	263	276	263	276	239
135°	336	325	336	325	336	259
145°	383	377	383	377	383	240
155°	416	416	416	416	416	192
165°	437	438	437	438	437	123
175°	445	448	445	448	445	42
180°	447	447	447	447	447	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1528.7	1529.9	1531.2	1528.3	1528.3	1525.8	1520.5	1516.5	1505.0	1503.4	1503.4
5°	1634.5	1633.4	1635.5	1628.9	1619.7	1617.6	1607.9	1595.2	1581.9	1567.1	1564.0
7.5°	1739.6	1738.1	1734.0	1732.9	1725.8	1710.4	1694.8	1678.2	1656.1	1634.6	1623.8
10°	1792.7	1809.6	1799.3	1781.5	1785.1	1761.1	1748.3	1726.4	1708.0	1675.8	1668.7
12.5°	1845.0	1851.6	1848.4	1838.2	1833.6	1817.0	1799.8	1780.7	1746.8	1717.9	1692.8
15°	1844.8	1854.5	1857.0	1854.0	1856.5	1855.5	1846.3	1830.5	1800.9	1769.2	1741.7
17.5°	1708.6	1715.3	1732.1	1743.4	1757.7	1787.9	1802.8	1808.6	1804.2	1786.2	1766.8
20°	1555.9	1544.6	1591.6	1615.6	1636.0	1687.0	1730.9	1747.8	1774.8	1774.3	1769.2
22.5°	1339.4	1342.1	1386.6	1415.1	1474.7	1525.7	1575.8	1639.2	1691.5	1726.1	1746.4
25°	984.2	1003.6	1048.0	1086.8	1153.1	1248.1	1334.3	1434.4	1528.8	1603.3	1674.3
27.5°	739.1	740.6	775.8	811.6	851.0	928.8	1037.4	1156.9	1291.5	1402.6	1530.4
30°	633.0	629.9	644.7	666.7	700.3	760.6	842.2	959.7	1093.9	1261.3	1410.4
32.5°	557.8	558.0	569.2	585.4	613.4	654.0	709.9	805.3	932.2	1096.8	1271.5
35°	484.9	484.4	492.6	504.3	516.1	542.1	580.4	630.4	717.7	871.3	1050.0
37.5°	432.7	434.9	438.9	446.2	459.2	473.7	496.7	530.3	592.4	683.3	833.5
40°	403.3	404.3	409.9	416.0	423.7	434.9	453.8	480.8	526.3	598.8	708.5
42.5°	376.3	377.3	381.3	387.0	393.0	404.3	419.9	443.3	480.1	536.7	627.2
45°	336.9	336.9	340.5	343.0	349.7	359.9	372.6	392.0	417.6	459.4	519.6
47.5°	299.9	300.0	302.4	306.8	311.0	318.9	331.5	347.3	365.9	398.3	449.7
50°	278.7	279.2	280.7	284.3	286.9	294.0	303.7	317.5	336.9	361.9	404.8
52.5°	261.6	261.2	263.2	264.7	266.5	271.6	278.8	291.0	308.3	330.1	365.6
55°	233.8	231.7	234.8	237.4	238.9	240.9	245.0	252.7	267.5	285.9	312.4
57.5°	199.1	198.3	200.4	202.8	207.6	213.1	216.5	221.4	229.1	242.3	268.6
60°	170.5	170.5	175.1	176.6	182.2	189.4	196.5	200.6	208.3	216.9	236.3
62.5°	145.2	145.6	147.7	149.3	152.4	161.2	171.2	180.2	187.4	195.7	208.6
65°	121.5	122.5	122.5	123.5	125.6	127.6	131.7	138.8	151.6	163.3	173.0
67.5°	103.1	103.4	103.7	104.7	105.3	107.5	109.1	112.3	115.3	126.4	138.4
70°	90.9	92.4	91.9	92.9	93.4	94.4	96.5	98.0	102.6	105.2	112.3
72.5°	79.4	80.5	80.4	81.1	82.4	82.6	84.2	85.8	88.7	90.9	94.7
75°	64.3	63.8	64.3	65.3	65.8	66.4	66.4	68.4	69.9	72.0	74.5
77.5°	49.6	50.1	50.0	50.1	50.2	51.1	51.0	52.0	53.5	54.5	55.7
80°	39.8	40.3	39.8	40.3	40.8	41.3	40.8	41.3	42.9	43.9	43.9
82.5°	30.8	30.9	31.2	31.3	31.4	31.5	32.3	32.4	33.5	33.3	33.7
85°	18.4	17.9	17.9	17.9	18.4	18.9	18.4	18.4	18.9	18.9	18.9
87.5°	8.3	8.7	8.6	8.6	8.6	8.5	8.5	8.8	8.3	8.6	8.1
90°	8.7	8.6	8.4	8.3	8.2	7.9	7.5	7.2	6.8	6.5	5.9
92.5°	8.7	8.6	8.6	8.5	8.4	8.2	8.1	7.9	7.7	7.5	7.2
95°	13.9	14.0	14.0	14.1	14.2	14.0	13.7	13.3	13.0	12.6	12.1
97.5°	18.6	18.5	18.4	18.3	18.2	18.0	17.7	17.5	17.2	16.9	15.7
100°	21.7	21.5	21.4	21.2	21.1	20.7	20.2	19.6	19.0	18.4	17.2
102.5°	23.2	23.0	22.8	22.6	22.4	21.9	21.2	20.4	19.7	18.9	29.2
105°	24.6	24.3	24.0	23.7	23.4	22.9	22.1	21.3	20.5	19.7	39.3
107.5°	25.3	25.0	24.7	24.4	24.1	24.4	25.2	26.0	26.8	27.6	51.1
110°	25.5	25.3	25.0	24.7	24.4	27.8	35.0	42.2	49.4	56.6	77.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	25.8	25.6	25.3	25.1	24.9	37.9	64.1	90.3	116.5	142.7	147.8
115°	26.5	31.7	36.9	42.0	47.2	66.4	99.7	133.0	166.2	199.5	197.7
117.5°	108.3	125.3	142.3	159.3	176.3	188.8	196.8	204.9	212.9	221.0	219.7
120°	197.2	206.9	216.6	226.3	236.0	240.4	239.6	238.7	237.9	237.0	235.7
122.5°	246.1	248.0	249.9	251.8	253.6	254.3	253.8	253.3	252.8	252.3	250.9
125°	276.4	276.2	276.0	275.8	275.6	275.2	274.7	274.2	273.7	273.2	271.8
127.5°	295.6	295.5	295.5	295.5	295.4	295.0	294.3	293.6	292.8	292.1	291.1
130°	307.5	307.6	307.6	307.7	307.8	307.4	306.6	305.8	305.0	304.3	303.5
132.5°	319.1	319.2	319.3	319.3	319.4	319.1	318.4	317.8	317.1	316.4	315.6
135°	335.9	336.1	336.2	336.4	336.5	336.2	335.5	334.8	334.1	333.4	332.7
137.5°	351.3	351.5	351.8	352.0	352.2	352.0	351.3	350.6	349.9	349.2	348.5
140°	360.8	361.2	361.6	361.9	362.3	362.1	361.5	360.8	360.2	359.5	358.8
142.5°	370.1	370.5	370.9	371.2	371.6	371.5	370.9	370.3	369.7	369.1	368.2
145°	383.1	383.5	383.9	384.2	384.6	384.5	384.0	383.5	383.0	382.5	381.3
147.5°	394.6	394.9	395.2	395.5	395.8	395.8	395.4	395.0	394.6	394.3	393.1
150°	401.6	401.9	402.3	402.7	403.0	403.0	402.5	402.1	401.7	401.3	400.1
152.5°	407.5	408.0	408.5	408.9	409.4	409.4	409.0	408.6	408.1	407.7	406.6
155°	415.8	416.4	417.0	417.5	418.1	418.2	417.7	417.3	416.9	416.4	415.6
157.5°	423.4	423.9	424.5	425.0	425.6	425.6	425.2	424.7	424.2	423.7	423.1
160°	427.8	428.3	428.8	429.3	429.8	429.8	429.4	429.0	428.5	428.1	427.7
162.5°	431.4	432.0	432.6	433.2	433.9	433.9	433.4	432.9	432.5	432.0	431.6
165°	436.8	437.3	437.8	438.3	438.8	438.8	438.3	437.8	437.3	436.8	436.6
167.5°	440.2	440.9	441.5	442.2	442.8	442.9	442.4	441.9	441.4	440.9	440.7
170°	442.3	443.0	443.6	444.3	444.9	445.0	444.5	444.0	443.5	443.0	442.8
172.5°	443.9	444.5	445.2	445.8	446.5	446.5	446.0	445.5	445.0	444.5	444.4
175°	445.2	445.9	446.7	447.4	448.1	448.2	447.7	447.2	446.7	446.2	446.1
177.5°	446.1	446.6	447.1	447.6	448.1	448.2	447.8	447.4	447.0	446.6	446.5
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1504.2	1500.9	1498.1	1490.7	1487.1	1478.9	1477.7	1477.3	1466.6	1456.4	1453.6
5°	1555.9	1547.7	1535.4	1521.1	1506.3	1491.0	1480.8	1472.7	1452.2	1432.8	1421.6
7.5°	1607.9	1590.4	1569.2	1542.2	1519.6	1494.3	1475.5	1458.7	1429.7	1401.9	1383.2
10°	1646.7	1618.1	1590.1	1552.8	1523.7	1495.1	1468.6	1445.6	1412.9	1376.2	1350.1
12.5°	1670.8	1639.4	1600.7	1564.2	1526.6	1490.2	1454.7	1425.2	1386.8	1348.8	1317.9
15°	1703.4	1669.7	1622.7	1570.7	1522.2	1474.7	1433.9	1397.1	1347.1	1301.7	1263.9
17.5°	1730.0	1683.7	1633.2	1573.0	1516.9	1456.5	1403.9	1357.0	1301.3	1246.5	1202.0
20°	1738.6	1692.7	1634.5	1574.2	1507.9	1436.9	1380.3	1329.2	1269.5	1209.8	1158.7
22.5°	1733.3	1697.6	1632.8	1560.8	1492.8	1418.5	1354.5	1295.3	1229.1	1168.1	1108.9
25°	1697.3	1685.0	1623.8	1545.1	1467.6	1381.3	1307.3	1242.4	1166.9	1101.6	1037.2
27.5°	1613.2	1639.7	1601.7	1518.0	1431.7	1339.2	1256.0	1182.2	1103.8	1030.3	966.2
30°	1532.4	1593.1	1576.8	1499.2	1402.7	1311.9	1218.5	1141.4	1057.7	982.1	918.8
32.5°	1421.7	1522.1	1538.0	1473.1	1373.3	1273.5	1175.6	1098.9	1011.5	931.9	870.2
35°	1245.5	1395.6	1464.5	1423.1	1323.1	1215.4	1114.3	1025.0	937.2	858.6	797.3
37.5°	1035.3	1239.7	1354.5	1357.5	1265.6	1153.6	1043.6	954.9	865.0	787.8	721.6
40°	898.9	1120.4	1270.0	1303.2	1225.6	1104.6	993.3	903.0	815.2	739.6	663.6
42.5°	776.4	997.1	1181.0	1238.7	1177.0	1056.8	945.2	850.7	765.4	693.9	616.2
45°	627.9	820.8	1023.5	1126.6	1092.4	981.1	863.2	773.3	693.2	631.4	556.9
47.5°	529.6	665.6	861.7	1001.2	1000.6	899.0	783.0	697.0	622.7	564.8	504.4
50°	473.7	592.1	758.0	916.3	929.5	844.3	734.0	648.8	579.4	518.6	470.1
52.5°	423.5	521.1	670.2	821.9	859.7	785.9	678.9	600.2	532.8	477.0	435.4
55°	357.8	433.4	546.7	688.6	745.8	693.7	598.8	525.3	470.6	423.7	387.9
57.5°	302.7	359.4	450.3	564.6	631.1	598.4	520.0	460.3	413.6	371.1	342.9
60°	268.0	314.4	391.5	487.0	560.5	537.5	470.6	415.0	375.2	338.4	311.9
62.5°	235.3	275.2	341.3	418.8	486.2	476.7	422.0	375.4	340.5	307.0	284.5
65°	189.4	218.5	270.0	330.8	384.9	389.5	350.2	318.5	287.4	260.8	240.9
67.5°	150.8	169.8	206.1	257.3	297.8	312.3	288.3	264.1	239.4	218.9	201.6
70°	127.1	142.4	169.0	210.3	247.6	262.9	249.1	230.2	208.8	191.9	177.1
72.5°	103.0	117.9	137.5	167.8	199.8	216.3	211.5	198.0	180.6	166.6	152.6
75°	77.6	82.2	95.5	115.9	140.9	155.2	158.8	151.6	137.8	127.1	118.9
77.5°	57.4	60.1	66.5	77.2	93.5	106.3	111.5	110.7	101.2	94.9	87.3
80°	45.9	47.5	50.5	55.1	67.4	80.1	83.7	83.7	77.1	74.5	66.9
82.5°	34.9	36.0	37.9	40.4	46.1	57.3	61.3	62.1	57.9	54.5	48.5
85°	19.9	19.4	20.4	21.9	23.0	26.0	32.2	33.2	32.2	28.1	26.5
87.5°	8.0	8.3	8.2	7.6	7.9	8.1	10.0	11.9	10.4	9.4	8.7
90°	5.3	4.7	4.2	3.5	2.7	1.9	1.1	0.3	1.1	1.9	2.7
92.5°	6.9	6.6	6.4	6.2	6.3	6.4	6.5	6.5	6.5	6.4	6.3
95°	11.6	11.1	10.6	11.5	13.9	16.3	18.6	21.0	18.6	16.3	13.9
97.5°	14.5	13.4	12.2	15.0	21.7	28.3	35.0	41.7	35.0	28.3	21.7
100°	16.0	14.8	13.5	17.9	27.7	37.5	47.4	57.2	47.4	37.5	27.7
102.5°	39.4	49.6	59.8	66.0	68.1	70.1	72.2	74.3	72.2	70.1	68.1
105°	59.0	78.6	98.2	106.9	104.8	102.6	100.4	98.3	100.4	102.6	104.8
107.5°	74.7	98.2	121.7	132.6	130.9	129.1	127.4	125.6	127.4	129.1	130.9
110°	98.1	118.9	139.6	149.3	147.8	146.3	144.7	143.2	144.7	146.3	147.8



TEST NUMBER: P331675

CATALOG NUMBER: SA2XXRDIP-C675D330U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	153.0	158.1	163.2	165.1	163.8	162.5	161.1	159.8	161.1	162.5	163.8
115°	195.9	194.1	192.3	190.8	189.6	188.4	187.1	185.9	187.1	188.4	189.6
117.5°	218.5	217.3	216.0	214.7	213.4	212.0	210.6	209.3	210.6	212.0	213.4
120°	234.4	233.1	231.8	230.6	229.6	228.5	227.4	226.3	227.4	228.5	229.6
122.5°	249.4	248.0	246.6	245.4	244.2	243.1	242.0	240.8	242.0	243.1	244.2
125°	270.5	269.1	267.8	266.6	265.7	264.7	263.8	262.9	263.8	264.7	265.7
127.5°	290.1	289.0	288.0	287.0	286.0	284.9	283.9	282.8	283.9	284.9	286.0
130°	302.7	301.9	301.1	300.1	299.0	297.8	296.7	295.5	296.7	297.8	299.0
132.5°	314.8	314.0	313.2	312.4	311.4	310.4	309.4	308.5	309.4	310.4	311.4
135°	332.1	331.4	330.8	329.9	328.7	327.6	326.4	325.3	326.4	327.6	328.7
137.5°	347.7	347.0	346.3	345.5	344.7	343.9	343.1	342.3	343.1	343.9	344.7
140°	358.0	357.2	356.4	355.7	355.1	354.5	354.0	353.4	354.0	354.5	355.1
142.5°	367.3	366.4	365.5	364.8	364.3	363.7	363.2	362.7	363.2	363.7	364.3
145°	380.1	378.8	377.6	377.0	377.1	377.2	377.3	377.3	377.3	377.2	377.1
147.5°	391.9	390.6	389.4	389.0	389.2	389.5	389.8	390.1	389.8	389.5	389.2
150°	399.0	397.8	396.7	396.3	396.8	397.3	397.8	398.3	397.8	397.3	396.8
152.5°	405.5	404.4	403.3	403.1	403.6	404.2	404.8	405.3	404.8	404.2	403.6
155°	414.7	413.9	413.0	412.9	413.5	414.2	414.8	415.5	414.8	414.2	413.5
157.5°	422.5	421.9	421.3	421.2	421.8	422.3	422.9	423.4	422.9	422.3	421.8
160°	427.2	426.8	426.4	426.4	426.8	427.2	427.7	428.1	427.7	427.2	426.8
162.5°	431.2	430.8	430.5	430.5	430.9	431.4	431.8	432.2	431.8	431.4	430.9
165°	436.4	436.2	436.0	436.1	436.5	436.9	437.4	437.8	437.4	436.9	436.5
167.5°	440.5	440.3	440.1	440.2	440.6	441.1	441.5	441.9	441.5	441.1	440.6
170°	442.7	442.5	442.4	442.5	443.0	443.4	443.8	444.3	443.8	443.4	443.0
172.5°	444.2	444.1	443.9	444.1	444.5	444.9	445.4	445.8	445.4	444.9	444.5
175°	445.9	445.8	445.6	445.8	446.3	446.8	447.3	447.8	447.3	446.8	446.3
177.5°	446.5	446.4	446.4	446.5	446.9	447.3	447.7	448.1	447.7	447.3	446.9
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



TEST NUMBER: P331675

CATALOG NUMBER: SA2XXRDIP-C675D330U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1448.3	1445.4	1440.1	1431.9	1427.0	1418.4	1412.7	1416.0	1416.8	1416.0	1415.2
5°	1409.4	1398.6	1383.8	1369.5	1356.3	1342.0	1333.8	1330.2	1323.1	1319.0	1317.0
7.5°	1362.3	1343.8	1322.9	1298.0	1276.8	1254.7	1243.4	1237.7	1223.1	1215.2	1208.2
10°	1327.2	1298.1	1277.2	1244.5	1224.6	1195.5	1175.6	1176.1	1156.2	1144.9	1136.8
12.5°	1288.4	1256.4	1221.6	1192.2	1164.5	1141.2	1117.2	1107.5	1086.3	1075.5	1053.5
15°	1224.1	1186.8	1150.1	1110.2	1082.2	1045.9	1011.2	968.8	934.6	905.0	896.9
17.5°	1153.8	1107.7	1070.8	1024.1	976.0	915.0	874.8	850.2	829.6	814.0	802.3
20°	1105.6	1058.7	1019.4	948.9	884.1	842.8	813.2	794.3	772.8	756.0	746.8
22.5°	1055.0	1006.0	952.4	873.8	823.3	790.1	763.7	742.0	727.5	714.3	706.0
25°	983.1	929.5	841.2	787.1	746.3	711.6	693.2	679.9	664.6	646.7	638.6
27.5°	907.2	821.9	758.5	718.3	679.3	656.7	640.2	620.4	606.7	598.7	590.2
30°	850.4	765.2	715.7	671.8	644.2	619.2	599.8	588.6	575.3	561.5	555.9
32.5°	787.1	719.0	671.6	635.0	607.0	585.7	570.4	552.2	542.6	534.1	522.4
35°	708.5	657.0	613.6	584.0	557.4	540.1	522.2	511.5	494.1	487.0	482.4
37.5°	641.9	597.2	564.9	533.6	512.6	493.4	482.5	465.4	457.9	448.0	438.3
40°	604.4	560.5	529.3	503.8	480.3	466.0	452.3	438.5	427.2	422.7	410.9
42.5°	566.0	530.3	499.1	471.1	455.4	440.3	422.9	412.8	401.1	393.7	386.4
45°	513.0	481.4	454.8	431.8	414.5	398.7	387.4	370.6	364.0	349.1	343.0
47.5°	466.5	437.0	411.7	389.9	372.9	362.6	346.2	333.0	322.4	313.3	305.5
50°	433.4	408.9	384.4	365.0	349.7	334.9	318.0	311.4	295.0	290.4	285.9
52.5°	403.2	379.9	357.4	338.4	323.1	308.7	293.9	285.2	274.2	269.6	266.3
55°	360.9	338.4	317.0	300.1	284.8	270.0	260.8	250.1	245.0	241.4	237.4
57.5°	318.4	298.2	281.8	264.7	249.3	237.6	226.9	220.5	215.2	210.5	205.6
60°	291.5	272.1	257.3	241.4	225.6	215.9	207.8	200.1	194.0	186.8	184.8
62.5°	262.9	245.9	232.4	216.9	203.2	194.3	186.5	179.3	171.9	161.5	158.6
65°	223.6	210.3	196.0	183.3	171.0	162.3	151.1	142.9	139.9	138.8	138.3
67.5°	188.1	175.5	163.2	150.2	139.0	131.0	125.3	124.0	121.9	121.3	119.9
70°	164.4	152.6	140.4	128.1	117.4	115.9	113.8	111.8	109.2	108.2	107.2
72.5°	143.1	131.0	118.7	108.9	104.3	102.4	100.4	98.3	96.6	95.6	94.9
75°	109.7	98.5	90.4	86.8	84.2	82.7	79.6	78.1	77.1	75.5	75.0
77.5°	79.0	72.7	68.9	66.7	64.0	62.4	60.6	59.1	58.0	57.7	56.9
80°	60.2	57.2	54.6	51.6	50.5	48.5	48.0	46.5	47.0	45.4	45.4
82.5°	46.8	42.9	40.7	39.3	38.3	36.7	36.1	35.4	35.5	34.4	34.4
85°	24.0	23.0	21.9	20.9	20.9	19.4	19.9	19.4	19.4	18.4	17.9
87.5°	8.5	8.2	7.5	7.6	7.7	7.4	7.5	7.2	7.2	7.3	6.9
90°	3.5	4.2	4.7	5.3	5.9	6.5	6.8	7.2	7.5	7.9	8.2
92.5°	6.2	6.4	6.6	6.9	7.2	7.5	7.7	7.9	8.1	8.2	8.4
95°	11.5	10.6	11.1	11.6	12.1	12.6	13.0	13.3	13.7	14.0	14.2
97.5°	15.0	12.2	13.4	14.5	15.7	16.9	17.2	17.5	17.7	18.0	18.2
100°	17.9	13.5	14.8	16.0	17.2	18.4	19.0	19.6	20.2	20.7	21.1
102.5°	66.0	59.8	49.6	39.4	29.2	18.9	19.7	20.4	21.2	21.9	22.4
105°	106.9	98.2	78.6	59.0	39.3	19.7	20.5	21.3	22.1	22.9	23.4
107.5°	132.6	121.7	98.2	74.7	51.1	27.6	26.8	26.0	25.2	24.4	24.1
110°	149.3	139.6	118.9	98.1	77.3	56.6	49.4	42.2	35.0	27.8	24.4



TEST NUMBER: P331675

CATALOG NUMBER: SA2XXRDIP-C675D330U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	165.1	163.2	158.1	153.0	147.8	142.7	116.5	90.3	64.1	37.9	24.9
115°	190.8	192.3	194.1	195.9	197.7	199.5	166.2	133.0	99.7	66.4	47.2
117.5°	214.7	216.0	217.3	218.5	219.7	221.0	212.9	204.9	196.8	188.8	176.3
120°	230.6	231.8	233.1	234.4	235.7	237.0	237.9	238.7	239.6	240.4	236.0
122.5°	245.4	246.6	248.0	249.4	250.9	252.3	252.8	253.3	253.8	254.3	253.6
125°	266.6	267.8	269.1	270.5	271.8	273.2	273.7	274.2	274.7	275.2	275.6
127.5°	287.0	288.0	289.0	290.1	291.1	292.1	292.8	293.6	294.3	295.0	295.4
130°	300.1	301.1	301.9	302.7	303.5	304.3	305.0	305.8	306.6	307.4	307.8
132.5°	312.4	313.2	314.0	314.8	315.6	316.4	317.1	317.8	318.4	319.1	319.4
135°	329.9	330.8	331.4	332.1	332.7	333.4	334.1	334.8	335.5	336.2	336.5
137.5°	345.5	346.3	347.0	347.7	348.5	349.2	349.9	350.6	351.3	352.0	352.2
140°	355.7	356.4	357.2	358.0	358.8	359.5	360.2	360.8	361.5	362.1	362.3
142.5°	364.8	365.5	366.4	367.3	368.2	369.1	369.7	370.3	370.9	371.5	371.6
145°	377.0	377.6	378.8	380.1	381.3	382.5	383.0	383.5	384.0	384.5	384.6
147.5°	389.0	389.4	390.6	391.9	393.1	394.3	394.6	395.0	395.4	395.8	395.8
150°	396.3	396.7	397.8	399.0	400.1	401.3	401.7	402.1	402.5	403.0	403.0
152.5°	403.1	403.3	404.4	405.5	406.6	407.7	408.1	408.6	409.0	409.4	409.4
155°	412.9	413.0	413.9	414.7	415.6	416.4	416.9	417.3	417.7	418.2	418.1
157.5°	421.2	421.3	421.9	422.5	423.1	423.7	424.2	424.7	425.2	425.6	425.6
160°	426.4	426.4	426.8	427.2	427.7	428.1	428.5	429.0	429.4	429.8	429.8
162.5°	430.5	430.5	430.8	431.2	431.6	432.0	432.5	432.9	433.4	433.9	433.9
165°	436.1	436.0	436.2	436.4	436.6	436.8	437.3	437.8	438.3	438.8	438.8
167.5°	440.2	440.1	440.3	440.5	440.7	440.9	441.4	441.9	442.4	442.9	442.8
170°	442.5	442.4	442.5	442.7	442.8	443.0	443.5	444.0	444.5	445.0	444.9
172.5°	444.1	443.9	444.1	444.2	444.4	444.5	445.0	445.5	446.0	446.5	446.5
175°	445.8	445.6	445.8	445.9	446.1	446.2	446.7	447.2	447.7	448.2	448.1
177.5°	446.5	446.4	446.4	446.5	446.5	446.6	447.0	447.4	447.8	448.2	448.1
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



TEST NUMBER: P331675

CATALOG NUMBER: SA2XXRDIP-C675D330U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1410.7	1411.5	1410.3	1411.1	1410.3	1411.5	1410.7	1415.2	1416.0	1416.8	1416.0
5°	1314.4	1308.3	1307.3	1305.7	1307.3	1308.3	1314.4	1317.0	1319.0	1323.1	1330.2
7.5°	1199.5	1198.5	1196.0	1192.4	1196.0	1198.5	1199.5	1208.2	1215.2	1223.1	1237.7
10°	1125.5	1123.0	1122.5	1118.9	1122.5	1123.0	1125.5	1136.8	1144.9	1156.2	1176.1
12.5°	1039.0	1022.5	1020.8	1011.9	1020.8	1022.5	1039.0	1053.5	1075.5	1086.3	1107.5
15°	884.6	881.6	871.3	864.7	871.3	881.6	884.6	896.9	905.0	934.6	968.8
17.5°	796.4	786.4	783.2	781.8	783.2	786.4	796.4	802.3	814.0	829.6	850.2
20°	739.6	730.5	728.9	727.9	728.9	730.5	739.6	746.8	756.0	772.8	794.3
22.5°	700.4	690.8	686.9	683.8	686.9	690.8	700.4	706.0	714.3	727.5	742.0
25°	633.5	629.9	627.9	626.8	627.9	629.9	633.5	638.6	646.7	664.6	679.9
27.5°	581.1	573.2	571.7	569.1	571.7	573.2	581.1	590.2	598.7	606.7	620.4
30°	551.3	548.7	545.2	542.1	545.2	548.7	551.3	555.9	561.5	575.3	588.6
32.5°	516.2	514.0	510.9	509.4	510.9	514.0	516.2	522.4	534.1	542.6	552.2
35°	477.3	470.1	467.1	462.5	467.1	470.1	477.3	482.4	487.0	494.1	511.5
37.5°	436.1	432.4	428.1	429.6	428.1	432.4	436.1	438.3	448.0	457.9	465.4
40°	404.3	401.7	400.7	400.2	400.7	401.7	404.3	410.9	422.7	427.2	438.5
42.5°	379.0	371.9	369.3	369.2	369.3	371.9	379.0	386.4	393.7	401.1	412.8
45°	340.5	333.8	329.2	329.8	329.2	333.8	340.5	343.0	349.1	364.0	370.6
47.5°	301.1	300.9	298.0	298.9	298.0	300.9	301.1	305.5	313.3	322.4	333.0
50°	282.3	279.2	277.2	277.7	277.2	279.2	282.3	285.9	290.4	295.0	311.4
52.5°	264.3	261.7	260.0	262.2	260.0	261.7	264.3	266.3	269.6	274.2	285.2
55°	234.8	231.7	231.2	230.7	231.2	231.7	234.8	237.4	241.4	245.0	250.1
57.5°	201.8	199.8	196.7	195.4	196.7	199.8	201.8	205.6	210.5	215.2	220.5
60°	178.1	174.1	169.0	168.4	169.0	174.1	178.1	184.8	186.8	194.0	200.1
62.5°	156.5	155.7	154.7	154.6	154.7	155.7	156.5	158.6	161.5	171.9	179.3
65°	137.3	136.8	137.3	137.8	137.3	136.8	137.3	138.3	138.8	139.9	142.9
67.5°	119.7	118.7	117.8	118.2	117.8	118.7	119.7	119.9	121.3	121.9	124.0
70°	106.2	105.7	105.2	105.2	105.2	105.7	106.2	107.2	108.2	109.2	111.8
72.5°	93.1	93.0	92.5	92.1	92.5	93.0	93.1	94.9	95.6	96.6	98.3
75°	74.5	73.5	73.5	73.5	73.5	73.5	74.5	75.0	75.5	77.1	78.1
77.5°	56.8	56.3	55.7	55.3	55.7	56.3	56.8	56.9	57.7	58.0	59.1
80°	44.9	44.4	43.9	43.9	43.9	44.4	44.9	45.4	45.4	47.0	46.5
82.5°	34.3	33.8	33.7	33.3	33.7	33.8	34.3	34.4	34.4	35.5	35.4
85°	18.4	18.9	18.4	19.4	18.4	18.9	18.4	17.9	18.4	19.4	19.4
87.5°	7.0	6.6	7.0	6.6	7.0	6.6	7.0	6.9	7.3	7.2	7.2
90°	8.3	8.4	8.6	8.7	8.6	8.4	8.3	8.2	7.9	7.5	7.2
92.5°	8.5	8.6	8.6	8.7	8.6	8.6	8.5	8.4	8.2	8.1	7.9
95°	14.1	14.0	14.0	13.9	14.0	14.0	14.1	14.2	14.0	13.7	13.3
97.5°	18.3	18.4	18.5	18.6	18.5	18.4	18.3	18.2	18.0	17.7	17.5
100°	21.2	21.4	21.5	21.7	21.5	21.4	21.2	21.1	20.7	20.2	19.6
102.5°	22.6	22.8	23.0	23.2	23.0	22.8	22.6	22.4	21.9	21.2	20.4
105°	23.7	24.0	24.3	24.6	24.3	24.0	23.7	23.4	22.9	22.1	21.3
107.5°	24.4	24.7	25.0	25.3	25.0	24.7	24.4	24.1	24.4	25.2	26.0
110°	24.7	25.0	25.3	25.5	25.3	25.0	24.7	24.4	27.8	35.0	42.2



TEST NUMBER: P331675

CATALOG NUMBER: SA2XXRDIP-C675D330U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	25.1	25.3	25.6	25.8	25.6	25.3	25.1	24.9	37.9	64.1	90.3
115°	42.0	36.9	31.7	26.5	31.7	36.9	42.0	47.2	66.4	99.7	133.0
117.5°	159.3	142.3	125.3	108.3	125.3	142.3	159.3	176.3	188.8	196.8	204.9
120°	226.3	216.6	206.9	197.2	206.9	216.6	226.3	236.0	240.4	239.6	238.7
122.5°	251.8	249.9	248.0	246.1	248.0	249.9	251.8	253.6	254.3	253.8	253.3
125°	275.8	276.0	276.2	276.4	276.2	276.0	275.8	275.6	275.2	274.7	274.2
127.5°	295.5	295.5	295.5	295.6	295.5	295.5	295.5	295.4	295.0	294.3	293.6
130°	307.7	307.6	307.6	307.5	307.6	307.6	307.7	307.8	307.4	306.6	305.8
132.5°	319.3	319.3	319.2	319.1	319.2	319.3	319.3	319.4	319.1	318.4	317.8
135°	336.4	336.2	336.1	335.9	336.1	336.2	336.4	336.5	336.2	335.5	334.8
137.5°	352.0	351.8	351.5	351.3	351.5	351.8	352.0	352.2	352.0	351.3	350.6
140°	361.9	361.6	361.2	360.8	361.2	361.6	361.9	362.3	362.1	361.5	360.8
142.5°	371.2	370.9	370.5	370.1	370.5	370.9	371.2	371.6	371.5	370.9	370.3
145°	384.2	383.9	383.5	383.1	383.5	383.9	384.2	384.6	384.5	384.0	383.5
147.5°	395.5	395.2	394.9	394.6	394.9	395.2	395.5	395.8	395.8	395.4	395.0
150°	402.7	402.3	401.9	401.6	401.9	402.3	402.7	403.0	403.0	402.5	402.1
152.5°	408.9	408.5	408.0	407.5	408.0	408.5	408.9	409.4	409.4	409.0	408.6
155°	417.5	417.0	416.4	415.8	416.4	417.0	417.5	418.1	418.2	417.7	417.3
157.5°	425.0	424.5	423.9	423.4	423.9	424.5	425.0	425.6	425.6	425.2	424.7
160°	429.3	428.8	428.3	427.8	428.3	428.8	429.3	429.8	429.8	429.4	429.0
162.5°	433.2	432.6	432.0	431.4	432.0	432.6	433.2	433.9	433.9	433.4	432.9
165°	438.3	437.8	437.3	436.8	437.3	437.8	438.3	438.8	438.8	438.3	437.8
167.5°	442.2	441.5	440.9	440.2	440.9	441.5	442.2	442.8	442.9	442.4	441.9
170°	444.3	443.6	443.0	442.3	443.0	443.6	444.3	444.9	445.0	444.5	444.0
172.5°	445.8	445.2	444.5	443.9	444.5	445.2	445.8	446.5	446.5	446.0	445.5
175°	447.4	446.7	445.9	445.2	445.9	446.7	447.4	448.1	448.2	447.7	447.2
177.5°	447.6	447.1	446.6	446.1	446.6	447.1	447.6	448.1	448.2	447.8	447.4
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



TEST NUMBER: P331675

CATALOG NUMBER: SA2XXRDIP-C675D330U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1412.7	1418.4	1427.0	1431.9	1440.1	1445.4	1448.3	1453.6	1456.4	1466.6	1477.3
5°	1333.8	1342.0	1356.3	1369.5	1383.8	1398.6	1409.4	1421.6	1432.8	1452.2	1472.7
7.5°	1243.4	1254.7	1276.8	1298.0	1322.9	1343.8	1362.3	1383.2	1401.9	1429.7	1458.7
10°	1175.6	1195.5	1224.6	1244.5	1277.2	1298.1	1327.2	1350.1	1376.2	1412.9	1445.6
12.5°	1117.2	1141.2	1164.5	1192.2	1221.6	1256.4	1288.4	1317.9	1348.8	1386.8	1425.2
15°	1011.2	1045.9	1082.2	1110.2	1150.1	1186.8	1224.1	1263.9	1301.7	1347.1	1397.1
17.5°	874.8	915.0	976.0	1024.1	1070.8	1107.7	1153.8	1202.0	1246.5	1301.3	1357.0
20°	813.2	842.8	884.1	948.9	1019.4	1058.7	1105.6	1158.7	1209.8	1269.5	1329.2
22.5°	763.7	790.1	823.3	873.8	952.4	1006.0	1055.0	1108.9	1168.1	1229.1	1295.3
25°	693.2	711.6	746.3	787.1	841.2	929.5	983.1	1037.2	1101.6	1166.9	1242.4
27.5°	640.2	656.7	679.3	718.3	758.5	821.9	907.2	966.2	1030.3	1103.8	1182.2
30°	599.8	619.2	644.2	671.8	715.7	765.2	850.4	918.8	982.1	1057.7	1141.4
32.5°	570.4	585.7	607.0	635.0	671.6	719.0	787.1	870.2	931.9	1011.5	1098.9
35°	522.2	540.1	557.4	584.0	613.6	657.0	708.5	797.3	858.6	937.2	1025.0
37.5°	482.5	493.4	512.6	533.6	564.9	597.2	641.9	721.6	787.8	865.0	954.9
40°	452.3	466.0	480.3	503.8	529.3	560.5	604.4	663.6	739.6	815.2	903.0
42.5°	422.9	440.3	455.4	471.1	499.1	530.3	566.0	616.2	693.9	765.4	850.7
45°	387.4	398.7	414.5	431.8	454.8	481.4	513.0	556.9	631.4	693.2	773.3
47.5°	346.2	362.6	372.9	389.9	411.7	437.0	466.5	504.4	564.8	622.7	697.0
50°	318.0	334.9	349.7	365.0	384.4	408.9	433.4	470.1	518.6	579.4	648.8
52.5°	293.9	308.7	323.1	338.4	357.4	379.9	403.2	435.4	477.0	532.8	600.2
55°	260.8	270.0	284.8	300.1	317.0	338.4	360.9	387.9	423.7	470.6	525.3
57.5°	226.9	237.6	249.3	264.7	281.8	298.2	318.4	342.9	371.1	413.6	460.3
60°	207.8	215.9	225.6	241.4	257.3	272.1	291.5	311.9	338.4	375.2	415.0
62.5°	186.5	194.3	203.2	216.9	232.4	245.9	262.9	284.5	307.0	340.5	375.4
65°	151.1	162.3	171.0	183.3	196.0	210.3	223.6	240.9	260.8	287.4	318.5
67.5°	125.3	131.0	139.0	150.2	163.2	175.5	188.1	201.6	218.9	239.4	264.1
70°	113.8	115.9	117.4	128.1	140.4	152.6	164.4	177.1	191.9	208.8	230.2
72.5°	100.4	102.4	104.3	108.9	118.7	131.0	143.1	152.6	166.6	180.6	198.0
75°	79.6	82.7	84.2	86.8	90.4	98.5	109.7	118.9	127.1	137.8	151.6
77.5°	60.6	62.4	64.0	66.7	68.9	72.7	79.0	87.3	94.9	101.2	110.7
80°	48.0	48.5	50.5	51.6	54.6	57.2	60.2	66.9	74.5	77.1	83.7
82.5°	36.1	36.7	38.3	39.3	40.7	42.9	46.8	48.5	54.5	57.9	62.1
85°	19.9	19.4	20.9	20.9	21.9	23.0	24.0	26.5	28.1	32.2	33.2
87.5°	7.5	7.4	7.7	7.6	7.5	8.2	8.5	8.7	9.4	10.4	11.9
90°	6.8	6.5	5.9	5.3	4.7	4.2	3.5	2.7	1.9	1.1	0.3
92.5°	7.7	7.5	7.2	6.9	6.6	6.4	6.2	6.3	6.4	6.5	6.5
95°	13.0	12.6	12.1	11.6	11.1	10.6	11.5	13.9	16.3	18.6	21.0
97.5°	17.2	16.9	15.7	14.5	13.4	12.2	15.0	21.7	28.3	35.0	41.7
100°	19.0	18.4	17.2	16.0	14.8	13.5	17.9	27.7	37.5	47.4	57.2
102.5°	19.7	18.9	29.2	39.4	49.6	59.8	66.0	68.1	70.1	72.2	74.3
105°	20.5	19.7	39.3	59.0	78.6	98.2	106.9	104.8	102.6	100.4	98.3
107.5°	26.8	27.6	51.1	74.7	98.2	121.7	132.6	130.9	129.1	127.4	125.6
110°	49.4	56.6	77.3	98.1	118.9	139.6	149.3	147.8	146.3	144.7	143.2



TEST NUMBER: P331675

CATALOG NUMBER: SA2XXRDIP-C675D330U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	116.5	142.7	147.8	153.0	158.1	163.2	165.1	163.8	162.5	161.1	159.8
115°	166.2	199.5	197.7	195.9	194.1	192.3	190.8	189.6	188.4	187.1	185.9
117.5°	212.9	221.0	219.7	218.5	217.3	216.0	214.7	213.4	212.0	210.6	209.3
120°	237.9	237.0	235.7	234.4	233.1	231.8	230.6	229.6	228.5	227.4	226.3
122.5°	252.8	252.3	250.9	249.4	248.0	246.6	245.4	244.2	243.1	242.0	240.8
125°	273.7	273.2	271.8	270.5	269.1	267.8	266.6	265.7	264.7	263.8	262.9
127.5°	292.8	292.1	291.1	290.1	289.0	288.0	287.0	286.0	284.9	283.9	282.8
130°	305.0	304.3	303.5	302.7	301.9	301.1	300.1	299.0	297.8	296.7	295.5
132.5°	317.1	316.4	315.6	314.8	314.0	313.2	312.4	311.4	310.4	309.4	308.5
135°	334.1	333.4	332.7	332.1	331.4	330.8	329.9	328.7	327.6	326.4	325.3
137.5°	349.9	349.2	348.5	347.7	347.0	346.3	345.5	344.7	343.9	343.1	342.3
140°	360.2	359.5	358.8	358.0	357.2	356.4	355.7	355.1	354.5	354.0	353.4
142.5°	369.7	369.1	368.2	367.3	366.4	365.5	364.8	364.3	363.7	363.2	362.7
145°	383.0	382.5	381.3	380.1	378.8	377.6	377.0	377.1	377.2	377.3	377.3
147.5°	394.6	394.3	393.1	391.9	390.6	389.4	389.0	389.2	389.5	389.8	390.1
150°	401.7	401.3	400.1	399.0	397.8	396.7	396.3	396.8	397.3	397.8	398.3
152.5°	408.1	407.7	406.6	405.5	404.4	403.3	403.1	403.6	404.2	404.8	405.3
155°	416.9	416.4	415.6	414.7	413.9	413.0	412.9	413.5	414.2	414.8	415.5
157.5°	424.2	423.7	423.1	422.5	421.9	421.3	421.2	421.8	422.3	422.9	423.4
160°	428.5	428.1	427.7	427.2	426.8	426.4	426.4	426.8	427.2	427.7	428.1
162.5°	432.5	432.0	431.6	431.2	430.8	430.5	430.5	430.9	431.4	431.8	432.2
165°	437.3	436.8	436.6	436.4	436.2	436.0	436.1	436.5	436.9	437.4	437.8
167.5°	441.4	440.9	440.7	440.5	440.3	440.1	440.2	440.6	441.1	441.5	441.9
170°	443.5	443.0	442.8	442.7	442.5	442.4	442.5	443.0	443.4	443.8	444.3
172.5°	445.0	444.5	444.4	444.2	444.1	443.9	444.1	444.5	444.9	445.4	445.8
175°	446.7	446.2	446.1	445.9	445.8	445.6	445.8	446.3	446.8	447.3	447.8
177.5°	447.0	446.6	446.5	446.5	446.4	446.4	446.5	446.9	447.3	447.7	448.1
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



TEST NUMBER: P331675

CATALOG NUMBER: SA2XXRDIP-C675D330U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1477.7	1478.9	1487.1	1490.7	1498.1	1500.9	1504.2	1503.4	1503.4	1505.0	1516.5
5°	1480.8	1491.0	1506.3	1521.1	1535.4	1547.7	1555.9	1564.0	1567.1	1581.9	1595.2
7.5°	1475.5	1494.3	1519.6	1542.2	1569.2	1590.4	1607.9	1623.8	1634.6	1656.1	1678.2
10°	1468.6	1495.1	1523.7	1552.8	1590.1	1618.1	1646.7	1668.7	1675.8	1708.0	1726.4
12.5°	1454.7	1490.2	1526.6	1564.2	1600.7	1639.4	1670.8	1692.8	1717.9	1746.8	1780.7
15°	1433.9	1474.7	1522.2	1570.7	1622.7	1669.7	1703.4	1741.7	1769.2	1800.9	1830.5
17.5°	1403.9	1456.5	1516.9	1573.0	1633.2	1683.7	1730.0	1766.8	1786.2	1804.2	1808.6
20°	1380.3	1436.9	1507.9	1574.2	1634.5	1692.7	1738.6	1769.2	1774.3	1774.8	1747.8
22.5°	1354.5	1418.5	1492.8	1560.8	1632.8	1697.6	1733.3	1746.4	1726.1	1691.5	1639.2
25°	1307.3	1381.3	1467.6	1545.1	1623.8	1685.0	1697.3	1674.3	1603.3	1528.8	1434.4
27.5°	1256.0	1339.2	1431.7	1518.0	1601.7	1639.7	1613.2	1530.4	1402.6	1291.5	1156.9
30°	1218.5	1311.9	1402.7	1499.2	1576.8	1593.1	1532.4	1410.4	1261.3	1093.9	959.7
32.5°	1175.6	1273.5	1373.3	1473.1	1538.0	1522.1	1421.7	1271.5	1096.8	932.2	805.3
35°	1114.3	1215.4	1323.1	1423.1	1464.5	1395.6	1245.5	1050.0	871.3	717.7	630.4
37.5°	1043.6	1153.6	1265.6	1357.5	1354.5	1239.7	1035.3	833.5	683.3	592.4	530.3
40°	993.3	1104.6	1225.6	1303.2	1270.0	1120.4	898.9	708.5	598.8	526.3	480.8
42.5°	945.2	1056.8	1177.0	1238.7	1181.0	997.1	776.4	627.2	536.7	480.1	443.3
45°	863.2	981.1	1092.4	1126.6	1023.5	820.8	627.9	519.6	459.4	417.6	392.0
47.5°	783.0	899.0	1000.6	1001.2	861.7	665.6	529.6	449.7	398.3	365.9	347.3
50°	734.0	844.3	929.5	916.3	758.0	592.1	473.7	404.8	361.9	336.9	317.5
52.5°	678.9	785.9	859.7	821.9	670.2	521.1	423.5	365.6	330.1	308.3	291.0
55°	598.8	693.7	745.8	688.6	546.7	433.4	357.8	312.4	285.9	267.5	252.7
57.5°	520.0	598.4	631.1	564.6	450.3	359.4	302.7	268.6	242.3	229.1	221.4
60°	470.6	537.5	560.5	487.0	391.5	314.4	268.0	236.3	216.9	208.3	200.6
62.5°	422.0	476.7	486.2	418.8	341.3	275.2	235.3	208.6	195.7	187.4	180.2
65°	350.2	389.5	384.9	330.8	270.0	218.5	189.4	173.0	163.3	151.6	138.8
67.5°	288.3	312.3	297.8	257.3	206.1	169.8	150.8	138.4	126.4	115.3	112.3
70°	249.1	262.9	247.6	210.3	169.0	142.4	127.1	112.3	105.2	102.6	98.0
72.5°	211.5	216.3	199.8	167.8	137.5	117.9	103.0	94.7	90.9	88.7	85.8
75°	158.8	155.2	140.9	115.9	95.5	82.2	77.6	74.5	72.0	69.9	68.4
77.5°	111.5	106.3	93.5	77.2	66.5	60.1	57.4	55.7	54.5	53.5	52.0
80°	83.7	80.1	67.4	55.1	50.5	47.5	45.9	43.9	43.9	42.9	41.3
82.5°	61.3	57.3	46.1	40.4	37.9	36.0	34.9	33.7	33.3	33.5	32.4
85°	32.2	26.0	23.0	21.9	20.4	19.4	19.9	18.9	18.9	18.9	18.4
87.5°	10.0	8.1	7.9	7.6	8.2	8.3	8.0	8.1	8.6	8.3	8.8
90°	1.1	1.9	2.7	3.5	4.2	4.7	5.3	5.9	6.5	6.8	7.2
92.5°	6.5	6.4	6.3	6.2	6.4	6.6	6.9	7.2	7.5	7.7	7.9
95°	18.6	16.3	13.9	11.5	10.6	11.1	11.6	12.1	12.6	13.0	13.3
97.5°	35.0	28.3	21.7	15.0	12.2	13.4	14.5	15.7	16.9	17.2	17.5
100°	47.4	37.5	27.7	17.9	13.5	14.8	16.0	17.2	18.4	19.0	19.6
102.5°	72.2	70.1	68.1	66.0	59.8	49.6	39.4	29.2	18.9	19.7	20.4
105°	100.4	102.6	104.8	106.9	98.2	78.6	59.0	39.3	19.7	20.5	21.3
107.5°	127.4	129.1	130.9	132.6	121.7	98.2	74.7	51.1	27.6	26.8	26.0
110°	144.7	146.3	147.8	149.3	139.6	118.9	98.1	77.3	56.6	49.4	42.2



TEST NUMBER: P331675

CATALOG NUMBER: SA2XXRDIP-C675D330U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	161.1	162.5	163.8	165.1	163.2	158.1	153.0	147.8	142.7	116.5	90.3
115°	187.1	188.4	189.6	190.8	192.3	194.1	195.9	197.7	199.5	166.2	133.0
117.5°	210.6	212.0	213.4	214.7	216.0	217.3	218.5	219.7	221.0	212.9	204.9
120°	227.4	228.5	229.6	230.6	231.8	233.1	234.4	235.7	237.0	237.9	238.7
122.5°	242.0	243.1	244.2	245.4	246.6	248.0	249.4	250.9	252.3	252.8	253.3
125°	263.8	264.7	265.7	266.6	267.8	269.1	270.5	271.8	273.2	273.7	274.2
127.5°	283.9	284.9	286.0	287.0	288.0	289.0	290.1	291.1	292.1	292.8	293.6
130°	296.7	297.8	299.0	300.1	301.1	301.9	302.7	303.5	304.3	305.0	305.8
132.5°	309.4	310.4	311.4	312.4	313.2	314.0	314.8	315.6	316.4	317.1	317.8
135°	326.4	327.6	328.7	329.9	330.8	331.4	332.1	332.7	333.4	334.1	334.8
137.5°	343.1	343.9	344.7	345.5	346.3	347.0	347.7	348.5	349.2	349.9	350.6
140°	354.0	354.5	355.1	355.7	356.4	357.2	358.0	358.8	359.5	360.2	360.8
142.5°	363.2	363.7	364.3	364.8	365.5	366.4	367.3	368.2	369.1	369.7	370.3
145°	377.3	377.2	377.1	377.0	377.6	378.8	380.1	381.3	382.5	383.0	383.5
147.5°	389.8	389.5	389.2	389.0	389.4	390.6	391.9	393.1	394.3	394.6	395.0
150°	397.8	397.3	396.8	396.3	396.7	397.8	399.0	400.1	401.3	401.7	402.1
152.5°	404.8	404.2	403.6	403.1	403.3	404.4	405.5	406.6	407.7	408.1	408.6
155°	414.8	414.2	413.5	412.9	413.0	413.9	414.7	415.6	416.4	416.9	417.3
157.5°	422.9	422.3	421.8	421.2	421.3	421.9	422.5	423.1	423.7	424.2	424.7
160°	427.7	427.2	426.8	426.4	426.4	426.8	427.2	427.7	428.1	428.5	429.0
162.5°	431.8	431.4	430.9	430.5	430.5	430.8	431.2	431.6	432.0	432.5	432.9
165°	437.4	436.9	436.5	436.1	436.0	436.2	436.4	436.6	436.8	437.3	437.8
167.5°	441.5	441.1	440.6	440.2	440.1	440.3	440.5	440.7	440.9	441.4	441.9
170°	443.8	443.4	443.0	442.5	442.4	442.5	442.7	442.8	443.0	443.5	444.0
172.5°	445.4	444.9	444.5	444.1	443.9	444.1	444.2	444.4	444.5	445.0	445.5
175°	447.3	446.8	446.3	445.8	445.6	445.8	445.9	446.1	446.2	446.7	447.2
177.5°	447.7	447.3	446.9	446.5	446.4	446.4	446.5	446.5	446.6	447.0	447.4
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1520.5	1525.8	1528.3	1528.3	1531.2	1529.9	1528.7
5°	1607.9	1617.6	1619.7	1628.9	1635.5	1633.4	1634.5
7.5°	1694.8	1710.4	1725.8	1732.9	1734.0	1738.1	1739.6
10°	1748.3	1761.1	1785.1	1781.5	1799.3	1809.6	1792.7
12.5°	1799.8	1817.0	1833.6	1838.2	1848.4	1851.6	1845.0
15°	1846.3	1855.5	1856.5	1854.0	1857.0	1854.5	1844.8
17.5°	1802.8	1787.9	1757.7	1743.4	1732.1	1715.3	1708.6
20°	1730.9	1687.0	1636.0	1615.6	1591.6	1544.6	1555.9
22.5°	1575.8	1525.7	1474.7	1415.1	1386.6	1342.1	1339.4
25°	1334.3	1248.1	1153.1	1086.8	1048.0	1003.6	984.2
27.5°	1037.4	928.8	851.0	811.6	775.8	740.6	739.1
30°	842.2	760.6	700.3	666.7	644.7	629.9	633.0
32.5°	709.9	654.0	613.4	585.4	569.2	558.0	557.8
35°	580.4	542.1	516.1	504.3	492.6	484.4	484.9
37.5°	496.7	473.7	459.2	446.2	438.9	434.9	432.7
40°	453.8	434.9	423.7	416.0	409.9	404.3	403.3
42.5°	419.9	404.3	393.0	387.0	381.3	377.3	376.3
45°	372.6	359.9	349.7	343.0	340.5	336.9	336.9
47.5°	331.5	318.9	311.0	306.8	302.4	300.0	299.9
50°	303.7	294.0	286.9	284.3	280.7	279.2	278.7
52.5°	278.8	271.6	266.5	264.7	263.2	261.2	261.6
55°	245.0	240.9	238.9	237.4	234.8	231.7	233.8
57.5°	216.5	213.1	207.6	202.8	200.4	198.3	199.1
60°	196.5	189.4	182.2	176.6	175.1	170.5	170.5
62.5°	171.2	161.2	152.4	149.3	147.7	145.6	145.2
65°	131.7	127.6	125.6	123.5	122.5	122.5	121.5
67.5°	109.1	107.5	105.3	104.7	103.7	103.4	103.1
70°	96.5	94.4	93.4	92.9	91.9	92.4	90.9
72.5°	84.2	82.6	82.4	81.1	80.4	80.5	79.4
75°	66.4	66.4	65.8	65.3	64.3	63.8	64.3
77.5°	51.0	51.1	50.2	50.1	50.0	50.1	49.6
80°	40.8	41.3	40.8	40.3	39.8	40.3	39.8
82.5°	32.3	31.5	31.4	31.3	31.2	30.9	30.8
85°	18.4	18.9	18.4	17.9	17.9	17.9	18.4
87.5°	8.5	8.5	8.6	8.6	8.6	8.7	8.3
90°	7.5	7.9	8.2	8.3	8.4	8.6	8.7
92.5°	8.1	8.2	8.4	8.5	8.6	8.6	8.7
95°	13.7	14.0	14.2	14.1	14.0	14.0	13.9
97.5°	17.7	18.0	18.2	18.3	18.4	18.5	18.6
100°	20.2	20.7	21.1	21.2	21.4	21.5	21.7
102.5°	21.2	21.9	22.4	22.6	22.8	23.0	23.2
105°	22.1	22.9	23.4	23.7	24.0	24.3	24.6
107.5°	25.2	24.4	24.1	24.4	24.7	25.0	25.3
110°	35.0	27.8	24.4	24.7	25.0	25.3	25.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	64.1	37.9	24.9	25.1	25.3	25.6	25.8
115°	99.7	66.4	47.2	42.0	36.9	31.7	26.5
117.5°	196.8	188.8	176.3	159.3	142.3	125.3	108.3
120°	239.6	240.4	236.0	226.3	216.6	206.9	197.2
122.5°	253.8	254.3	253.6	251.8	249.9	248.0	246.1
125°	274.7	275.2	275.6	275.8	276.0	276.2	276.4
127.5°	294.3	295.0	295.4	295.5	295.5	295.5	295.6
130°	306.6	307.4	307.8	307.7	307.6	307.6	307.5
132.5°	318.4	319.1	319.4	319.3	319.3	319.2	319.1
135°	335.5	336.2	336.5	336.4	336.2	336.1	335.9
137.5°	351.3	352.0	352.2	352.0	351.8	351.5	351.3
140°	361.5	362.1	362.3	361.9	361.6	361.2	360.8
142.5°	370.9	371.5	371.6	371.2	370.9	370.5	370.1
145°	384.0	384.5	384.6	384.2	383.9	383.5	383.1
147.5°	395.4	395.8	395.8	395.5	395.2	394.9	394.6
150°	402.5	403.0	403.0	402.7	402.3	401.9	401.6
152.5°	409.0	409.4	409.4	408.9	408.5	408.0	407.5
155°	417.7	418.2	418.1	417.5	417.0	416.4	415.8
157.5°	425.2	425.6	425.6	425.0	424.5	423.9	423.4
160°	429.4	429.8	429.8	429.3	428.8	428.3	427.8
162.5°	433.4	433.9	433.9	433.2	432.6	432.0	431.4
165°	438.3	438.8	438.8	438.3	437.8	437.3	436.8
167.5°	442.4	442.9	442.8	442.2	441.5	440.9	440.2
170°	444.5	445.0	444.9	444.3	443.6	443.0	442.3
172.5°	446.0	446.5	446.5	445.8	445.2	444.5	443.9
175°	447.7	448.2	448.1	447.4	446.7	445.9	445.2
177.5°	447.8	448.2	448.1	447.6	447.1	446.6	446.1
180°	446.8	446.8	446.8	446.8	446.8	446.8	446.8

(END OF REPORT)