

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: P332933-840

Luminaire Tested: **SA4XXRDIP-C795D590U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332933-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C795D590U840-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

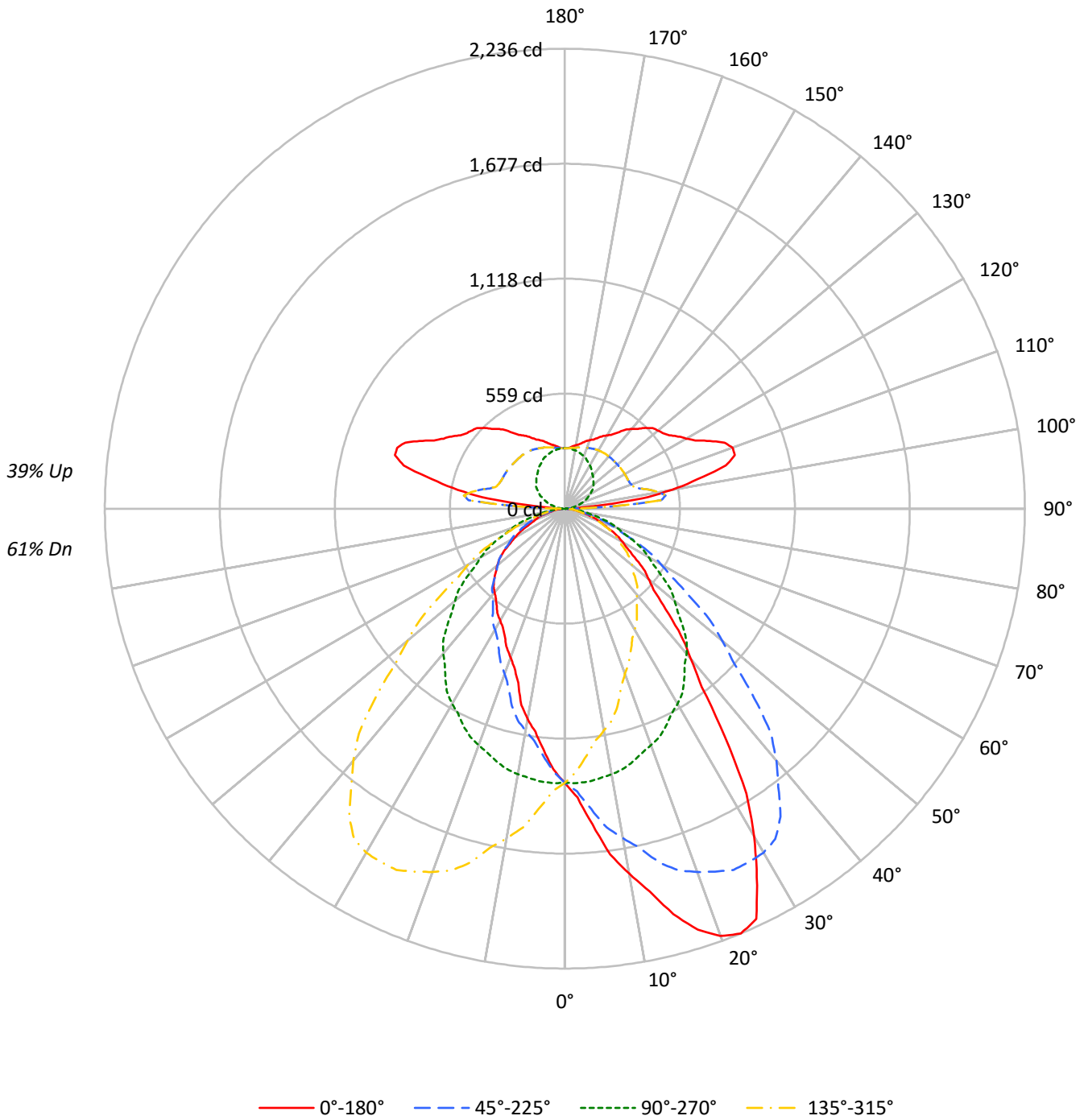
Lumens per Lamp: N/A
Luminaire Lumens: 5503.8 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 40.3
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	66	66	66	61
1	101	97	93	90	94	91	87	85	79	77	75	69	67	66	60	58	57	53
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	45
3	85	75	68	62	79	71	65	59	63	58	54	55	51	48	48	45	42	39
4	78	67	59	53	72	63	56	51	56	50	46	49	45	41	43	40	37	34
5	71	60	52	46	67	57	49	44	50	45	40	44	40	36	39	35	33	30
6	66	54	46	40	62	51	44	39	46	40	35	40	36	32	35	32	29	26
7	61	49	41	36	57	46	39	34	41	36	31	37	32	29	32	29	26	23
8	57	45	37	32	53	42	35	30	38	32	28	34	29	26	30	26	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	28	24	21	19
10	50	38	30	26	47	36	29	25	32	27	23	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10761	10761	10761	10761
5°	12482	10794	9541	10794
10°	14767	10747	8515	10747
15°	17057	10647	7317	10647
20°	18991	10511	6617	10511
25°	19605	10377	6143	10377
30°	17162	10213	5857	10213
35°	13360	9973	5685	9973
40°	10019	9695	5593	9695
45°	7911	9252	5543	9252
50°	6678	8743	5383	8743
55°	5820	8179	5095	8179
60°	5238	7597	4510	7597
65°	4617	6967	3878	6967
70°	4157	6314	3498	6314
75°	3484	5596	2982	5596
80°	2947	4770	2799	4770
85°	2492	3733	2492	3733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	2.3
10°-20°	389.6	7.1
20°-30°	609.4	11.1
30°-40°	677.4	12.3
40°-50°	601.0	10.9
50°-60°	468.4	8.5
60°-70°	306.6	5.6
70°-80°	150.8	2.7
80°-90°	38.8	0.7
90°-100°	211.8	3.8
100°-110°	440.8	8.0
110°-120°	394.8	7.2
120°-130°	332.1	6.0
130°-140°	276.9	5.0
140°-150°	211.5	3.8
150°-160°	148.7	2.7
160°-170°	87.5	1.6
170°-180°	28.5	0.5
0°-30°	1128.1	20.5
0°-40°	1805.6	32.8
0°-60°	2875.0	52.2
0°-90°	3371.2	61.3
90°-120°	1047.4	19.0
90°-150°	1868.0	33.9
90°-180°	2133.0	38.8
0°-180°	5503.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1333	1333	1333	1333	1333	
5°	1540	1332	1177	1332	1540	156
15°	2041	1274	876	1274	2041	580
25°	2201	1165	690	1165	2201	976
35°	1356	1012	577	1012	1356	850
45°	693	810	486	810	693	549
55°	414	581	362	581	414	376
65°	242	365	203	365	242	243
75°	112	179	96	179	112	123
85°	27	40	27	40	27	31
90°	12	1	12	1	12	11
95°	141	19	141	19	141	218
105°	810	67	810	67	810	801
115°	778	119	778	119	778	773
125°	621	165	621	165	621	564
135°	555	196	555	196	555	429
145°	453	226	453	226	453	287
155°	380	258	380	258	380	177
165°	331	280	331	280	331	95
175°	298	293	298	293	298	29
180°	293	293	293	293	293	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1406.0	1410.0	1406.0	1405.6	1401.4	1400.1	1398.4	1392.8	1382.4	1376.4	1377.8
5°	1540.3	1553.8	1546.3	1545.2	1533.4	1521.6	1514.0	1496.8	1478.5	1466.2	1456.0
7.5°	1695.7	1703.4	1698.7	1691.1	1672.0	1661.2	1643.8	1621.1	1588.4	1563.4	1540.4
10°	1801.4	1807.9	1805.6	1791.7	1777.8	1749.3	1733.1	1701.5	1660.1	1627.4	1596.8
12.5°	1905.3	1912.3	1893.3	1894.0	1867.5	1845.1	1819.6	1779.7	1731.9	1689.7	1651.3
15°	2040.9	2032.4	2032.4	2021.5	1992.1	1960.9	1934.6	1892.7	1832.5	1782.0	1728.9
17.5°	2147.1	2150.0	2145.7	2120.3	2097.1	2064.9	2016.6	1967.7	1911.9	1844.1	1789.8
20°	2210.6	2210.6	2205.8	2188.6	2158.6	2124.2	2072.0	2018.9	1948.0	1879.8	1818.6
22.5°	2236.4	2238.2	2232.4	2218.3	2191.2	2157.7	2113.3	2059.3	1986.2	1909.5	1833.6
25°	2201.0	2211.2	2212.2	2208.5	2200.4	2180.0	2141.9	2086.6	2021.0	1937.8	1856.1
27.5°	2020.7	2033.6	2044.9	2063.5	2088.2	2101.0	2102.7	2074.7	2017.5	1937.3	1855.2
30°	1841.1	1851.9	1886.7	1932.4	1967.9	2000.1	2028.0	2035.6	2003.4	1931.4	1844.9
32.5°	1641.7	1656.4	1691.3	1740.4	1799.5	1854.0	1916.7	1948.7	1947.9	1904.7	1824.7
35°	1355.6	1366.3	1398.6	1450.2	1521.1	1602.2	1701.5	1778.8	1831.5	1827.7	1778.8
37.5°	1093.3	1105.4	1138.0	1180.7	1249.5	1349.9	1446.0	1552.6	1649.9	1704.6	1688.3
40°	950.7	951.2	982.9	1026.9	1091.4	1178.9	1283.6	1401.8	1510.3	1598.9	1616.1
42.5°	838.1	838.2	859.1	906.6	953.0	1035.4	1135.4	1252.7	1379.7	1482.1	1527.6
45°	692.9	697.7	714.9	743.4	779.8	849.7	929.7	1038.7	1181.0	1302.4	1378.2
47.5°	586.7	593.8	604.7	627.9	657.0	703.6	769.7	867.7	983.5	1117.0	1224.8
50°	531.7	532.8	546.7	559.7	584.9	622.0	679.9	761.5	867.9	996.3	1116.1
52.5°	484.4	484.2	492.6	509.0	529.5	558.4	605.2	679.5	773.9	888.9	1012.5
55°	413.5	416.3	422.7	435.6	451.1	471.6	508.6	564.5	638.6	736.9	849.1
57.5°	359.6	361.0	366.1	371.5	385.9	400.7	428.5	467.3	529.8	610.3	714.9
60°	324.4	325.0	326.6	334.6	345.9	359.8	378.6	411.4	464.0	537.7	620.4
62.5°	290.0	290.9	293.5	299.3	308.1	317.7	337.4	363.8	407.3	470.2	544.7
65°	241.7	242.3	246.0	248.1	255.1	263.7	278.2	295.9	326.0	378.6	435.0
67.5°	202.0	202.0	202.2	205.1	209.8	215.6	224.3	238.4	261.2	293.5	343.2
70°	176.1	176.1	177.2	178.8	181.6	186.3	191.2	202.0	218.6	244.9	283.1
72.5°	152.1	152.5	153.6	153.9	155.3	159.3	162.9	169.8	182.1	202.0	232.8
75°	111.7	113.3	116.0	118.2	120.9	120.3	124.1	128.4	132.1	143.9	161.7
77.5°	83.1	82.3	82.6	84.4	84.7	85.3	88.0	91.3	94.1	99.7	106.0
80°	63.4	63.4	65.0	65.5	65.0	65.5	68.2	69.8	70.9	73.0	79.0
82.5°	47.9	48.8	48.3	48.8	49.1	49.6	51.9	52.2	53.3	54.1	56.7
85°	26.9	27.4	28.0	26.9	26.9	26.9	28.0	28.5	29.6	29.0	30.1
87.5°	11.9	11.4	12.0	11.9	12.2	11.7	12.1	12.8	11.8	12.4	12.1
90°	12.1	12.1	12.6	12.1	11.5	11.5	10.9	10.4	9.8	10.4	9.2
92.5°	44.3	44.3	46.4	49.4	56.2	67.8	85.1	113.1	152.2	182.7	160.0
95°	140.6	148.0	158.4	176.3	204.5	260.3	337.6	426.9	482.7	469.5	354.3
97.5°	375.7	387.7	405.0	439.7	481.0	541.2	597.5	630.7	606.5	494.5	331.6
100°	528.3	532.9	550.2	585.3	635.4	678.0	706.3	694.8	610.7	463.1	300.7
102.5°	661.0	664.7	682.9	708.3	739.1	756.9	748.7	691.6	576.0	424.0	279.9
105°	810.5	814.0	822.0	826.7	825.6	801.9	744.9	645.2	513.3	377.9	262.2
107.5°	866.1	864.5	858.8	845.7	817.2	765.9	685.5	579.5	462.6	352.1	258.9
110°	867.0	861.8	851.4	827.3	786.4	723.0	639.4	539.8	437.3	343.4	259.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	839.8	831.4	816.9	787.6	741.1	677.8	598.8	510.8	422.9	339.2	262.6
115°	778.3	773.7	755.3	720.6	675.2	619.9	552.5	481.6	409.6	337.0	267.9
117.5°	716.0	712.4	693.7	664.7	625.8	579.0	525.9	467.3	403.6	336.4	273.5
120°	681.0	674.6	659.6	634.3	601.4	560.5	514.4	460.9	400.4	336.4	277.7
122.5°	653.3	646.9	634.3	612.6	584.8	549.0	507.1	455.3	396.7	336.0	281.9
125°	621.0	617.5	606.6	589.9	566.8	535.1	495.4	445.9	390.6	335.3	288.0
127.5°	602.1	598.6	589.5	574.6	551.4	521.4	481.7	434.3	382.4	334.0	293.0
130°	591.1	587.6	578.3	564.0	540.4	509.8	470.7	425.2	377.3	333.6	296.7
132.5°	578.7	575.1	566.4	550.2	526.9	496.4	458.2	415.5	372.7	333.1	299.9
135°	555.3	551.9	542.7	526.5	503.5	474.6	439.6	402.1	365.8	332.3	304.8
137.5°	526.5	522.4	514.8	498.9	477.4	451.3	421.7	390.0	359.8	332.2	307.6
140°	505.8	501.2	493.1	480.5	460.3	436.1	410.2	383.0	356.6	331.8	309.9
142.5°	483.6	480.5	473.3	461.5	443.7	422.7	400.5	376.7	353.9	331.8	311.7
145°	453.3	450.5	444.7	434.9	420.5	404.5	387.1	367.5	349.1	330.6	312.9
147.5°	426.6	425.5	421.1	412.7	402.1	389.4	375.6	360.0	344.9	328.6	313.4
150°	411.3	410.7	407.3	399.8	390.6	380.2	368.7	355.5	341.6	327.2	313.4
152.5°	397.5	396.9	394.9	388.7	380.9	372.3	361.7	350.3	337.9	324.9	312.5
155°	379.6	379.6	377.9	373.3	367.5	360.6	351.9	342.7	332.3	321.4	311.0
157.5°	364.0	364.0	362.9	359.5	355.1	349.5	342.3	334.6	326.8	317.9	309.6
160°	354.3	354.3	353.8	350.2	346.8	342.1	335.9	329.5	322.7	315.1	308.2
162.5°	345.1	345.6	345.0	341.5	339.0	334.8	329.8	324.5	318.9	312.4	306.8
165°	331.2	331.8	332.3	330.1	327.8	324.9	320.8	317.4	312.9	308.2	304.2
167.5°	320.3	320.7	320.8	319.4	318.2	316.5	313.3	310.6	307.3	304.1	301.4
170°	313.4	313.4	314.0	313.4	312.3	310.5	308.2	306.5	303.6	301.2	299.5
172.5°	306.5	307.4	308.0	307.4	306.7	305.5	304.1	302.8	300.3	298.5	297.7
175°	298.4	299.5	300.7	299.5	299.5	299.5	298.4	297.8	296.7	295.5	295.5
177.5°	293.7	294.6	295.5	295.1	295.5	295.1	295.1	294.6	294.2	293.7	293.7
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1373.4	1367.5	1364.4	1357.6	1349.4	1345.0	1341.2	1335.6	1328.3	1320.6	1314.9
5°	1443.1	1430.3	1414.1	1394.8	1377.7	1361.0	1346.5	1332.0	1315.3	1298.1	1280.9
7.5°	1514.7	1489.3	1462.0	1430.3	1399.5	1371.4	1345.6	1320.9	1292.9	1268.0	1245.2
10°	1564.5	1530.1	1492.0	1451.8	1411.5	1376.5	1342.2	1311.0	1276.7	1246.1	1220.2
12.5°	1604.9	1564.5	1518.6	1468.4	1420.1	1377.9	1338.3	1297.7	1258.6	1225.4	1191.0
15°	1671.9	1616.6	1554.9	1494.7	1431.9	1374.4	1321.2	1273.9	1229.4	1182.7	1149.9
17.5°	1718.0	1652.3	1577.3	1505.0	1430.8	1363.0	1301.7	1245.4	1194.0	1146.2	1107.2
20°	1745.6	1673.0	1589.7	1507.6	1424.3	1351.8	1285.8	1223.5	1170.3	1118.7	1078.4
22.5°	1761.0	1680.7	1589.7	1503.7	1417.4	1339.0	1266.5	1201.5	1143.7	1092.1	1047.5
25°	1766.0	1680.0	1587.1	1488.2	1393.7	1310.5	1235.3	1165.0	1100.4	1048.9	1001.7
27.5°	1759.1	1657.9	1562.7	1461.3	1363.7	1276.0	1197.1	1123.2	1058.6	1003.3	954.8
30°	1748.8	1640.2	1538.2	1432.9	1334.1	1249.8	1166.5	1095.6	1028.5	971.1	922.2
32.5°	1726.4	1618.8	1508.9	1401.2	1301.0	1214.2	1135.2	1063.9	998.0	939.3	887.4
35°	1682.1	1573.2	1453.9	1343.2	1245.0	1154.7	1080.7	1011.9	949.1	886.2	831.4
37.5°	1623.9	1512.5	1393.8	1272.6	1174.3	1089.1	1021.1	956.5	895.2	837.9	777.2
40°	1568.8	1467.3	1344.8	1224.6	1123.6	1041.4	978.6	920.0	858.3	801.3	740.6
42.5°	1502.2	1415.7	1292.0	1171.2	1071.6	992.4	933.9	876.7	820.4	765.3	702.0
45°	1391.1	1325.5	1209.5	1093.5	993.1	914.6	860.9	810.4	761.0	708.4	648.8
47.5°	1263.6	1219.3	1119.1	1000.4	907.5	836.9	785.0	743.8	702.0	649.3	597.0
50°	1175.2	1146.7	1050.0	941.5	852.9	787.9	734.8	696.1	661.2	610.7	563.9
52.5°	1080.7	1065.5	983.8	880.1	794.5	730.7	685.3	650.6	615.2	573.3	529.6
55°	936.6	944.7	875.5	785.8	705.2	651.5	610.2	581.1	551.1	515.6	481.8
57.5°	789.5	818.9	772.4	693.7	618.1	568.6	537.5	513.0	487.8	458.4	429.5
60°	701.5	726.1	699.8	630.6	564.5	518.3	489.3	470.5	445.2	418.4	396.4
62.5°	615.5	642.0	626.3	570.4	509.1	469.3	443.7	426.3	407.5	384.1	361.1
65°	507.6	524.7	517.3	478.6	435.0	401.2	377.6	364.7	347.5	330.3	309.9
67.5°	388.7	421.9	417.6	397.0	359.4	333.0	317.5	306.1	290.4	277.7	263.8
70°	319.5	350.2	349.6	333.0	312.6	287.9	277.1	267.5	253.5	241.2	229.8
72.5°	261.6	289.6	293.8	281.0	267.0	248.3	238.0	231.4	217.8	209.3	200.3
75°	183.2	203.6	208.9	208.9	202.5	192.8	183.7	179.4	169.8	162.2	156.8
77.5°	120.1	133.0	141.4	143.3	144.3	141.1	133.5	130.5	123.1	120.4	115.2
80°	84.8	93.4	103.1	106.3	109.1	108.0	104.7	102.6	95.6	92.9	90.8
82.5°	58.7	63.4	71.3	78.4	77.7	80.5	77.7	75.9	70.7	69.7	67.6
85°	30.6	31.1	32.2	37.1	39.8	40.8	41.4	40.3	38.7	38.7	34.9
87.5°	11.9	11.5	11.6	11.6	12.0	13.5	14.5	14.7	13.6	12.7	11.5
90°	8.1	8.1	4.6	4.6	4.0	3.4	1.7	0.6	1.7	3.4	4.0
92.5°	116.3	71.7	42.4	30.4	22.0	14.9	9.6	6.6	9.6	14.9	22.0
95°	216.6	122.1	72.0	47.8	34.0	26.5	20.7	19.0	20.7	26.5	34.0
97.5°	194.7	116.7	78.2	57.9	45.9	39.1	34.1	34.1	34.1	39.1	45.9
100°	183.2	118.1	84.1	65.6	54.7	47.8	43.8	43.8	43.8	47.8	54.7
102.5°	180.0	122.7	91.9	74.4	63.9	57.5	53.9	53.0	53.9	57.5	63.9
105°	181.5	133.6	106.0	89.3	79.0	72.0	69.2	67.4	69.2	72.0	79.0
107.5°	190.0	146.4	121.1	104.6	94.7	87.4	84.4	83.3	84.4	87.4	94.7
110°	196.4	156.1	130.8	115.2	104.8	98.0	95.0	93.9	95.0	98.0	104.8



TEST NUMBER: P332933-840
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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	203.4	165.3	140.9	125.3	115.0	108.6	105.2	104.0	105.2	108.6	115.0
115°	214.3	179.8	156.7	141.2	130.2	124.4	120.4	118.7	120.4	124.4	130.2
117.5°	225.5	193.7	171.8	155.6	145.4	139.1	135.5	133.9	135.5	139.1	145.4
120°	233.3	203.4	181.5	165.3	155.5	149.2	145.2	144.0	145.2	149.2	155.5
122.5°	240.7	212.6	190.7	175.0	164.3	158.4	154.4	153.2	154.4	158.4	164.3
125°	251.8	225.2	204.5	188.3	177.4	171.1	167.6	165.3	167.6	171.1	177.4
127.5°	261.4	237.0	216.9	200.7	189.2	182.1	177.9	176.0	177.9	182.1	189.2
130°	267.3	244.8	225.2	208.5	197.6	188.9	184.3	182.1	184.3	188.9	197.6
132.5°	273.3	251.3	231.7	215.9	204.1	195.9	189.9	188.0	189.9	195.9	204.1
135°	281.1	260.3	241.4	226.4	214.3	204.5	198.7	196.4	198.7	204.5	214.3
137.5°	286.7	267.3	249.5	235.3	222.7	213.4	207.0	204.9	207.0	213.4	222.7
140°	290.3	272.0	254.6	240.8	228.7	218.9	212.6	210.9	212.6	218.9	228.7
142.5°	293.1	276.1	259.2	245.9	234.2	224.9	219.0	217.3	219.0	224.9	234.2
145°	296.1	280.5	265.6	252.9	242.0	233.9	228.1	226.4	228.1	233.9	242.0
147.5°	298.7	285.2	271.1	259.7	250.5	242.3	237.2	236.6	237.2	242.3	250.5
150°	300.1	287.5	274.8	263.9	255.2	248.3	243.7	243.1	243.7	248.3	255.2
152.5°	301.0	289.3	278.0	268.0	260.2	253.8	249.2	249.1	249.2	253.8	260.2
155°	301.8	292.1	282.3	273.7	267.3	261.6	258.1	257.5	258.1	261.6	267.3
157.5°	301.8	294.1	285.7	278.9	273.4	268.9	265.7	265.7	265.7	268.9	273.4
160°	301.8	295.0	288.0	281.7	277.1	273.1	270.7	270.7	270.7	273.1	277.1
162.5°	301.8	295.9	289.4	284.5	280.3	276.7	274.9	275.4	274.9	276.7	280.3
165°	300.7	296.1	290.9	287.5	284.6	281.7	280.5	280.5	280.5	281.7	284.6
167.5°	299.3	296.0	292.2	289.5	287.9	285.7	285.2	285.7	285.2	285.7	287.9
170°	298.4	295.5	292.7	290.9	289.7	288.0	287.5	288.0	287.5	288.0	289.7
172.5°	297.5	295.1	293.1	291.9	291.1	289.8	289.7	290.3	289.7	289.8	291.1
175°	296.1	294.4	293.3	293.3	292.7	292.1	292.1	292.7	292.1	292.1	292.7
177.5°	294.6	293.7	293.3	293.3	293.3	292.8	293.3	293.7	293.3	292.8	293.3
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P332933-840

CATALOG NUMBER: SA4XXRDIP-C795D590U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1309.0	1304.6	1299.1	1292.6	1285.0	1278.1	1275.1	1277.6	1278.9	1275.5	1275.1
5°	1269.1	1255.7	1245.0	1228.8	1216.0	1205.2	1197.7	1194.5	1195.6	1187.0	1184.8
7.5°	1224.4	1208.4	1190.8	1171.7	1153.9	1138.1	1129.8	1125.3	1116.2	1112.3	1105.7
10°	1195.6	1174.1	1156.9	1134.3	1113.9	1095.1	1086.0	1078.4	1069.3	1065.0	1055.9
12.5°	1165.9	1140.9	1122.1	1098.6	1077.8	1055.1	1046.4	1032.5	1018.2	1009.2	997.4
15°	1124.1	1094.1	1071.0	1043.0	1018.3	992.5	969.5	943.6	934.0	913.6	901.8
17.5°	1075.2	1044.7	1016.1	978.7	940.6	908.6	883.9	859.2	844.4	831.4	825.4
20°	1043.0	1015.1	975.3	931.8	889.4	853.9	834.0	818.0	801.8	792.7	786.3
22.5°	1012.5	976.8	930.7	883.7	841.3	813.5	796.7	780.1	767.1	758.4	749.7
25°	961.4	914.6	865.8	812.0	783.0	758.9	740.6	727.2	719.1	707.9	703.6
27.5°	908.9	852.2	798.3	762.2	732.1	709.9	694.0	683.9	673.7	666.5	661.0
30°	868.5	811.0	762.7	728.3	697.7	679.4	666.5	654.7	646.6	640.8	636.4
32.5°	828.5	771.0	730.4	693.5	669.3	651.5	637.7	628.9	622.6	615.0	612.4
35°	770.7	719.7	684.3	651.0	626.2	610.2	599.4	590.3	584.9	582.7	581.1
37.5°	715.2	673.4	635.3	607.9	585.9	573.3	560.6	556.1	552.4	548.6	550.3
40°	679.9	640.8	606.9	577.9	560.2	546.2	538.7	533.3	530.1	530.1	530.1
42.5°	649.4	611.1	578.1	552.1	534.4	522.6	514.2	509.7	508.6	508.2	510.8
45°	602.1	566.6	533.3	511.8	496.8	484.9	480.2	476.4	476.4	478.6	479.1
47.5°	555.1	521.9	495.2	471.1	457.4	450.0	445.8	443.8	444.0	446.3	448.7
50°	526.3	493.6	467.3	445.8	432.9	425.9	422.1	421.1	422.1	422.1	425.9
52.5°	494.9	465.6	439.8	421.7	407.1	400.5	398.5	397.0	397.7	399.4	401.0
55°	449.0	422.7	398.0	380.8	370.0	365.8	360.9	361.4	360.4	361.4	361.4
57.5°	402.9	379.3	356.3	342.6	333.3	327.0	321.7	323.3	321.6	321.4	320.5
60°	373.2	347.5	329.2	316.9	306.1	300.7	295.9	297.0	295.4	294.3	292.2
62.5°	341.0	319.5	302.2	290.2	281.7	275.4	270.5	269.5	265.8	262.1	257.4
65°	294.3	276.6	261.1	249.7	241.7	236.8	233.1	229.8	221.8	213.2	208.9
67.5°	248.9	236.1	221.6	212.1	205.5	199.1	192.0	186.5	178.9	174.2	171.6
70°	219.6	207.3	195.0	185.8	178.8	173.0	164.9	161.2	155.7	153.6	150.9
72.5°	191.8	180.3	168.7	160.5	153.1	148.5	142.1	138.4	136.0	135.1	132.5
75°	149.4	140.2	131.6	124.1	118.2	114.9	112.3	109.6	108.5	103.6	101.0
77.5°	109.0	102.9	97.6	92.2	88.0	85.8	80.7	77.6	75.7	73.5	72.9
80°	84.8	80.6	75.2	72.0	66.0	63.9	61.8	61.2	60.7	60.2	59.6
82.5°	63.8	59.5	54.1	52.2	50.6	49.3	48.0	47.5	47.0	47.3	47.2
85°	32.2	30.1	30.1	29.6	29.0	28.5	28.0	28.0	27.4	28.0	27.4
87.5°	11.6	11.2	11.9	11.1	11.7	11.9	11.4	11.5	12.1	11.3	11.3
90°	4.6	4.6	8.1	8.1	9.2	10.4	9.8	10.4	10.9	11.5	11.5
92.5°	30.4	42.4	71.7	116.3	160.0	182.7	152.2	113.1	85.1	67.8	56.2
95°	47.8	72.0	122.1	216.6	354.3	469.5	482.7	426.9	337.6	260.3	204.5
97.5°	57.9	78.2	116.7	194.7	331.6	494.5	606.5	630.7	597.5	541.2	481.0
100°	65.6	84.1	118.1	183.2	300.7	463.1	610.7	694.8	706.3	678.0	635.4
102.5°	74.4	91.9	122.7	180.0	279.9	424.0	576.0	691.6	748.7	756.9	739.1
105°	89.3	106.0	133.6	181.5	262.2	377.9	513.3	645.2	744.9	801.9	825.6
107.5°	104.6	121.1	146.4	190.0	258.9	352.1	462.6	579.5	685.5	765.9	817.2
110°	115.2	130.8	156.1	196.4	259.8	343.4	437.3	539.8	639.4	723.0	786.4



TEST NUMBER: P332933-840

CATALOG NUMBER: SA4XXRDIP-C795D590U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	125.3	140.9	165.3	203.4	262.6	339.2	422.9	510.8	598.8	677.8	741.1
115°	141.2	156.7	179.8	214.3	267.9	337.0	409.6	481.6	552.5	619.9	675.2
117.5°	155.6	171.8	193.7	225.5	273.5	336.4	403.6	467.3	525.9	579.0	625.8
120°	165.3	181.5	203.4	233.3	277.7	336.4	400.4	460.9	514.4	560.5	601.4
122.5°	175.0	190.7	212.6	240.7	281.9	336.0	396.7	455.3	507.1	549.0	584.8
125°	188.3	204.5	225.2	251.8	288.0	335.3	390.6	445.9	495.4	535.1	566.8
127.5°	200.7	216.9	237.0	261.4	293.0	334.0	382.4	434.3	481.7	521.4	551.4
130°	208.5	225.2	244.8	267.3	296.7	333.6	377.3	425.2	470.7	509.8	540.4
132.5°	215.9	231.7	251.3	273.3	299.9	333.1	372.7	415.5	458.2	496.4	526.9
135°	226.4	241.4	260.3	281.1	304.8	332.3	365.8	402.1	439.6	474.6	503.5
137.5°	235.3	249.5	267.3	286.7	307.6	332.2	359.8	390.0	421.7	451.3	477.4
140°	240.8	254.6	272.0	290.3	309.9	331.8	356.6	383.0	410.2	436.1	460.3
142.5°	245.9	259.2	276.1	293.1	311.7	331.8	353.9	376.7	400.5	422.7	443.7
145°	252.9	265.6	280.5	296.1	312.9	330.6	349.1	367.5	387.1	404.5	420.5
147.5°	259.7	271.1	285.2	298.7	313.4	328.6	344.9	360.0	375.6	389.4	402.1
150°	263.9	274.8	287.5	300.1	313.4	327.2	341.6	355.5	368.7	380.2	390.6
152.5°	268.0	278.0	289.3	301.0	312.5	324.9	337.9	350.3	361.7	372.3	380.9
155°	273.7	282.3	292.1	301.8	311.0	321.4	332.3	342.7	351.9	360.6	367.5
157.5°	278.9	285.7	294.1	301.8	309.6	317.9	326.8	334.6	342.3	349.5	355.1
160°	281.7	288.0	295.0	301.8	308.2	315.1	322.7	329.5	335.9	342.1	346.8
162.5°	284.5	289.4	295.9	301.8	306.8	312.4	318.9	324.5	329.8	334.8	339.0
165°	287.5	290.9	296.1	300.7	304.2	308.2	312.9	317.4	320.8	324.9	327.8
167.5°	289.5	292.2	296.0	299.3	301.4	304.1	307.3	310.6	313.3	316.5	318.2
170°	290.9	292.7	295.5	298.4	299.5	301.2	303.6	306.5	308.2	310.5	312.3
172.5°	291.9	293.1	295.1	297.5	297.7	298.5	300.3	302.8	304.1	305.5	306.7
175°	293.3	293.3	294.4	296.1	295.5	295.5	296.7	297.8	298.4	299.5	299.5
177.5°	293.3	293.3	293.7	294.6	293.7	293.7	294.2	294.6	295.1	295.1	295.5
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P332933-840

CATALOG NUMBER: SA4XXRDIP-C795D590U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1272.4	1273.3	1270.3	1269.4	1270.3	1273.3	1272.4	1275.1	1275.5	1278.9	1277.6
5°	1180.5	1179.4	1176.8	1177.3	1176.8	1179.4	1180.5	1184.8	1187.0	1195.6	1194.5
7.5°	1101.9	1097.7	1098.8	1094.6	1098.8	1097.7	1101.9	1105.7	1112.3	1116.2	1125.3
10°	1053.8	1047.8	1043.0	1038.7	1043.0	1047.8	1053.8	1055.9	1065.0	1069.3	1078.4
12.5°	988.1	983.0	976.4	977.8	976.4	983.0	988.1	997.4	1009.2	1018.2	1032.5
15°	894.7	886.8	873.8	875.5	873.8	886.8	894.7	901.8	913.6	934.0	943.6
17.5°	815.9	816.0	810.0	811.4	810.0	816.0	815.9	825.4	831.4	844.4	859.2
20°	775.0	771.2	771.7	770.2	771.7	771.2	775.0	786.3	792.7	801.8	818.0
22.5°	746.7	742.0	738.3	735.0	738.3	742.0	746.7	749.7	758.4	767.1	780.1
25°	698.7	695.5	690.6	689.6	690.6	695.5	698.7	703.6	707.9	719.1	727.2
27.5°	656.6	656.0	654.1	651.6	654.1	656.0	656.6	661.0	666.5	673.7	683.9
30°	632.2	631.1	630.0	628.3	630.0	631.1	632.2	636.4	640.8	646.6	654.7
32.5°	610.3	609.6	608.5	608.6	608.5	609.6	610.3	612.4	615.0	622.6	628.9
35°	579.0	578.5	577.3	576.8	577.3	578.5	579.0	581.1	582.7	584.9	590.3
37.5°	549.8	551.2	550.5	550.4	550.5	551.2	549.8	550.3	548.6	552.4	556.1
40°	529.6	530.1	531.2	530.7	531.2	530.1	529.6	530.1	530.1	530.1	533.3
42.5°	512.8	512.9	514.4	512.6	514.4	512.9	512.8	510.8	508.2	508.6	509.7
45°	482.8	486.0	485.5	485.5	485.5	486.0	482.8	479.1	478.6	476.4	476.4
47.5°	450.1	452.8	453.6	453.5	453.6	452.8	450.1	448.7	446.3	444.0	443.8
50°	428.6	427.5	429.1	428.6	429.1	427.5	428.6	425.9	422.1	422.1	421.1
52.5°	402.4	402.6	402.5	401.9	402.5	402.6	402.4	401.0	399.4	397.7	397.0
55°	362.0	362.5	361.4	362.0	361.4	362.5	362.0	361.4	361.4	360.4	361.4
57.5°	318.2	315.6	316.7	315.4	316.7	315.6	318.2	320.5	321.4	321.6	323.3
60°	286.8	282.5	281.4	279.3	281.4	282.5	286.8	292.2	294.3	295.4	297.0
62.5°	251.6	248.5	244.9	246.6	244.9	248.5	251.6	257.4	262.1	265.8	269.5
65°	204.6	202.5	200.9	203.0	200.9	202.5	204.6	208.9	213.2	221.8	229.8
67.5°	169.4	168.2	168.2	167.1	168.2	168.2	169.4	171.6	174.2	178.9	186.5
70°	150.9	149.4	149.4	148.2	149.4	149.4	150.9	150.9	153.6	155.7	161.2
72.5°	132.0	130.4	130.9	130.2	130.9	130.4	132.0	132.5	135.1	136.0	138.4
75°	97.8	95.0	95.0	95.6	95.0	95.0	97.8	101.0	103.6	108.5	109.6
77.5°	72.9	72.4	73.1	72.2	73.1	72.4	72.9	72.9	73.5	75.7	77.6
80°	59.6	59.1	58.6	60.2	58.6	59.1	59.6	59.6	60.2	60.7	61.2
82.5°	46.3	46.2	46.0	48.2	46.0	46.2	46.3	47.2	47.3	47.0	47.5
85°	28.0	26.9	28.0	26.9	28.0	26.9	28.0	27.4	28.0	27.4	28.0
87.5°	12.3	12.0	11.4	11.9	11.4	12.0	12.3	11.3	11.3	12.1	11.5
90°	12.1	12.6	12.1	12.1	12.1	12.6	12.1	11.5	11.5	10.9	10.4
92.5°	49.4	46.4	44.3	44.3	44.3	46.4	49.4	56.2	67.8	85.1	113.1
95°	176.3	158.4	148.0	140.6	148.0	158.4	176.3	204.5	260.3	337.6	426.9
97.5°	439.7	405.0	387.7	375.7	387.7	405.0	439.7	481.0	541.2	597.5	630.7
100°	585.3	550.2	532.9	528.3	532.9	550.2	585.3	635.4	678.0	706.3	694.8
102.5°	708.3	682.9	664.7	661.0	664.7	682.9	708.3	739.1	756.9	748.7	691.6
105°	826.7	822.0	814.0	810.5	814.0	822.0	826.7	825.6	801.9	744.9	645.2
107.5°	845.7	858.8	864.5	866.1	864.5	858.8	845.7	817.2	765.9	685.5	579.5
110°	827.3	851.4	861.8	867.0	861.8	851.4	827.3	786.4	723.0	639.4	539.8



TEST NUMBER: P332933-840

CATALOG NUMBER: SA4XXRDIP-C795D590U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	787.6	816.9	831.4	839.8	831.4	816.9	787.6	741.1	677.8	598.8	510.8
115°	720.6	755.3	773.7	778.3	773.7	755.3	720.6	675.2	619.9	552.5	481.6
117.5°	664.7	693.7	712.4	716.0	712.4	693.7	664.7	625.8	579.0	525.9	467.3
120°	634.3	659.6	674.6	681.0	674.6	659.6	634.3	601.4	560.5	514.4	460.9
122.5°	612.6	634.3	646.9	653.3	646.9	634.3	612.6	584.8	549.0	507.1	455.3
125°	589.9	606.6	617.5	621.0	617.5	606.6	589.9	566.8	535.1	495.4	445.9
127.5°	574.6	589.5	598.6	602.1	598.6	589.5	574.6	551.4	521.4	481.7	434.3
130°	564.0	578.3	587.6	591.1	587.6	578.3	564.0	540.4	509.8	470.7	425.2
132.5°	550.2	566.4	575.1	578.7	575.1	566.4	550.2	526.9	496.4	458.2	415.5
135°	526.5	542.7	551.9	555.3	551.9	542.7	526.5	503.5	474.6	439.6	402.1
137.5°	498.9	514.8	522.4	526.5	522.4	514.8	498.9	477.4	451.3	421.7	390.0
140°	480.5	493.1	501.2	505.8	501.2	493.1	480.5	460.3	436.1	410.2	383.0
142.5°	461.5	473.3	480.5	483.6	480.5	473.3	461.5	443.7	422.7	400.5	376.7
145°	434.9	444.7	450.5	453.3	450.5	444.7	434.9	420.5	404.5	387.1	367.5
147.5°	412.7	421.1	425.5	426.6	425.5	421.1	412.7	402.1	389.4	375.6	360.0
150°	399.8	407.3	410.7	411.3	410.7	407.3	399.8	390.6	380.2	368.7	355.5
152.5°	388.7	394.9	396.9	397.5	396.9	394.9	388.7	380.9	372.3	361.7	350.3
155°	373.3	377.9	379.6	379.6	379.6	377.9	373.3	367.5	360.6	351.9	342.7
157.5°	359.5	362.9	364.0	364.0	364.0	362.9	359.5	355.1	349.5	342.3	334.6
160°	350.2	353.8	354.3	354.3	354.3	353.8	350.2	346.8	342.1	335.9	329.5
162.5°	341.5	345.0	345.6	345.1	345.6	345.0	341.5	339.0	334.8	329.8	324.5
165°	330.1	332.3	331.8	331.2	331.8	332.3	330.1	327.8	324.9	320.8	317.4
167.5°	319.4	320.8	320.7	320.3	320.7	320.8	319.4	318.2	316.5	313.3	310.6
170°	313.4	314.0	313.4	313.4	313.4	314.0	313.4	312.3	310.5	308.2	306.5
172.5°	307.4	308.0	307.4	306.5	307.4	308.0	307.4	306.7	305.5	304.1	302.8
175°	299.5	300.7	299.5	298.4	299.5	300.7	299.5	299.5	299.5	298.4	297.8
177.5°	295.1	295.5	294.6	293.7	294.6	295.5	295.1	295.5	295.1	295.1	294.6
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P332933-840

CATALOG NUMBER: SA4XXRDIP-C795D590U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1275.1	1278.1	1285.0	1292.6	1299.1	1304.6	1309.0	1314.9	1320.6	1328.3	1335.6
5°	1197.7	1205.2	1216.0	1228.8	1245.0	1255.7	1269.1	1280.9	1298.1	1315.3	1332.0
7.5°	1129.8	1138.1	1153.9	1171.7	1190.8	1208.4	1224.4	1245.2	1268.0	1292.9	1320.9
10°	1086.0	1095.1	1113.9	1134.3	1156.9	1174.1	1195.6	1220.2	1246.1	1276.7	1311.0
12.5°	1046.4	1055.1	1077.8	1098.6	1122.1	1140.9	1165.9	1191.0	1225.4	1258.6	1297.7
15°	969.5	992.5	1018.3	1043.0	1071.0	1094.1	1124.1	1149.9	1182.7	1229.4	1273.9
17.5°	883.9	908.6	940.6	978.7	1016.1	1044.7	1075.2	1107.2	1146.2	1194.0	1245.4
20°	834.0	853.9	889.4	931.8	975.3	1015.1	1043.0	1078.4	1118.7	1170.3	1223.5
22.5°	796.7	813.5	841.3	883.7	930.7	976.8	1012.5	1047.5	1092.1	1143.7	1201.5
25°	740.6	758.9	783.0	812.0	865.8	914.6	961.4	1001.7	1048.9	1100.4	1165.0
27.5°	694.0	709.9	732.1	762.2	798.3	852.2	908.9	954.8	1003.3	1058.6	1123.2
30°	666.5	679.4	697.7	728.3	762.7	811.0	868.5	922.2	971.1	1028.5	1095.6
32.5°	637.7	651.5	669.3	693.5	730.4	771.0	828.5	887.4	939.3	998.0	1063.9
35°	599.4	610.2	626.2	651.0	684.3	719.7	770.7	831.4	886.2	949.1	1011.9
37.5°	560.6	573.3	585.9	607.9	635.3	673.4	715.2	777.2	837.9	895.2	956.5
40°	538.7	546.2	560.2	577.9	606.9	640.8	679.9	740.6	801.3	858.3	920.0
42.5°	514.2	522.6	534.4	552.1	578.1	611.1	649.4	702.0	765.3	820.4	876.7
45°	480.2	484.9	496.8	511.8	533.3	566.6	602.1	648.8	708.4	761.0	810.4
47.5°	445.8	450.0	457.4	471.1	495.2	521.9	555.1	597.0	649.3	702.0	743.8
50°	422.1	425.9	432.9	445.8	467.3	493.6	526.3	563.9	610.7	661.2	696.1
52.5°	398.5	400.5	407.1	421.7	439.8	465.6	494.9	529.6	573.3	615.2	650.6
55°	360.9	365.8	370.0	380.8	398.0	422.7	449.0	481.8	515.6	551.1	581.1
57.5°	321.7	327.0	333.3	342.6	356.3	379.3	402.9	429.5	458.4	487.8	513.0
60°	295.9	300.7	306.1	316.9	329.2	347.5	373.2	396.4	418.4	445.2	470.5
62.5°	270.5	275.4	281.7	290.2	302.2	319.5	341.0	361.1	384.1	407.5	426.3
65°	233.1	236.8	241.7	249.7	261.1	276.6	294.3	309.9	330.3	347.5	364.7
67.5°	192.0	199.1	205.5	212.1	221.6	236.1	248.9	263.8	277.7	290.4	306.1
70°	164.9	173.0	178.8	185.8	195.0	207.3	219.6	229.8	241.2	253.5	267.5
72.5°	142.1	148.5	153.1	160.5	168.7	180.3	191.8	200.3	209.3	217.8	231.4
75°	112.3	114.9	118.2	124.1	131.6	140.2	149.4	156.8	162.2	169.8	179.4
77.5°	80.7	85.8	88.0	92.2	97.6	102.9	109.0	115.2	120.4	123.1	130.5
80°	61.8	63.9	66.0	72.0	75.2	80.6	84.8	90.8	92.9	95.6	102.6
82.5°	48.0	49.3	50.6	52.2	54.1	59.5	63.8	67.6	69.7	70.7	75.9
85°	28.0	28.5	29.0	29.6	30.1	30.1	32.2	34.9	38.7	38.7	40.3
87.5°	11.4	11.9	11.7	11.1	11.9	11.2	11.6	11.5	12.7	13.6	14.7
90°	9.8	10.4	9.2	8.1	8.1	4.6	4.6	4.0	3.4	1.7	0.6
92.5°	152.2	182.7	160.0	116.3	71.7	42.4	30.4	22.0	14.9	9.6	6.6
95°	482.7	469.5	354.3	216.6	122.1	72.0	47.8	34.0	26.5	20.7	19.0
97.5°	606.5	494.5	331.6	194.7	116.7	78.2	57.9	45.9	39.1	34.1	34.1
100°	610.7	463.1	300.7	183.2	118.1	84.1	65.6	54.7	47.8	43.8	43.8
102.5°	576.0	424.0	279.9	180.0	122.7	91.9	74.4	63.9	57.5	53.9	53.0
105°	513.3	377.9	262.2	181.5	133.6	106.0	89.3	79.0	72.0	69.2	67.4
107.5°	462.6	352.1	258.9	190.0	146.4	121.1	104.6	94.7	87.4	84.4	83.3
110°	437.3	343.4	259.8	196.4	156.1	130.8	115.2	104.8	98.0	95.0	93.9



TEST NUMBER: P332933-840

CATALOG NUMBER: SA4XXRDIP-C795D590U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	422.9	339.2	262.6	203.4	165.3	140.9	125.3	115.0	108.6	105.2	104.0
115°	409.6	337.0	267.9	214.3	179.8	156.7	141.2	130.2	124.4	120.4	118.7
117.5°	403.6	336.4	273.5	225.5	193.7	171.8	155.6	145.4	139.1	135.5	133.9
120°	400.4	336.4	277.7	233.3	203.4	181.5	165.3	155.5	149.2	145.2	144.0
122.5°	396.7	336.0	281.9	240.7	212.6	190.7	175.0	164.3	158.4	154.4	153.2
125°	390.6	335.3	288.0	251.8	225.2	204.5	188.3	177.4	171.1	167.6	165.3
127.5°	382.4	334.0	293.0	261.4	237.0	216.9	200.7	189.2	182.1	177.9	176.0
130°	377.3	333.6	296.7	267.3	244.8	225.2	208.5	197.6	188.9	184.3	182.1
132.5°	372.7	333.1	299.9	273.3	251.3	231.7	215.9	204.1	195.9	189.9	188.0
135°	365.8	332.3	304.8	281.1	260.3	241.4	226.4	214.3	204.5	198.7	196.4
137.5°	359.8	332.2	307.6	286.7	267.3	249.5	235.3	222.7	213.4	207.0	204.9
140°	356.6	331.8	309.9	290.3	272.0	254.6	240.8	228.7	218.9	212.6	210.9
142.5°	353.9	331.8	311.7	293.1	276.1	259.2	245.9	234.2	224.9	219.0	217.3
145°	349.1	330.6	312.9	296.1	280.5	265.6	252.9	242.0	233.9	228.1	226.4
147.5°	344.9	328.6	313.4	298.7	285.2	271.1	259.7	250.5	242.3	237.2	236.6
150°	341.6	327.2	313.4	300.1	287.5	274.8	263.9	255.2	248.3	243.7	243.1
152.5°	337.9	324.9	312.5	301.0	289.3	278.0	268.0	260.2	253.8	249.2	249.1
155°	332.3	321.4	311.0	301.8	292.1	282.3	273.7	267.3	261.6	258.1	257.5
157.5°	326.8	317.9	309.6	301.8	294.1	285.7	278.9	273.4	268.9	265.7	265.7
160°	322.7	315.1	308.2	301.8	295.0	288.0	281.7	277.1	273.1	270.7	270.7
162.5°	318.9	312.4	306.8	301.8	295.9	289.4	284.5	280.3	276.7	274.9	275.4
165°	312.9	308.2	304.2	300.7	296.1	290.9	287.5	284.6	281.7	280.5	280.5
167.5°	307.3	304.1	301.4	299.3	296.0	292.2	289.5	287.9	285.7	285.2	285.7
170°	303.6	301.2	299.5	298.4	295.5	292.7	290.9	289.7	288.0	287.5	288.0
172.5°	300.3	298.5	297.7	297.5	295.1	293.1	291.9	291.1	289.8	289.7	290.3
175°	296.7	295.5	295.5	296.1	294.4	293.3	293.3	292.7	292.1	292.1	292.7
177.5°	294.2	293.7	293.7	294.6	293.7	293.3	293.3	293.3	292.8	293.3	293.7
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P332933-840
 CATALOG NUMBER: SA4XXRDIP-C795D590U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1341.2	1345.0	1349.4	1357.6	1364.4	1367.5	1373.4	1377.8	1376.4	1382.4	1392.8
5°	1346.5	1361.0	1377.7	1394.8	1414.1	1430.3	1443.1	1456.0	1466.2	1478.5	1496.8
7.5°	1345.6	1371.4	1399.5	1430.3	1462.0	1489.3	1514.7	1540.4	1563.4	1588.4	1621.1
10°	1342.2	1376.5	1411.5	1451.8	1492.0	1530.1	1564.5	1596.8	1627.4	1660.1	1701.5
12.5°	1338.3	1377.9	1420.1	1468.4	1518.6	1564.5	1604.9	1651.3	1689.7	1731.9	1779.7
15°	1321.2	1374.4	1431.9	1494.7	1554.9	1616.6	1671.9	1728.9	1782.0	1832.5	1892.7
17.5°	1301.7	1363.0	1430.8	1505.0	1577.3	1652.3	1718.0	1789.8	1844.1	1911.9	1967.7
20°	1285.8	1351.8	1424.3	1507.6	1589.7	1673.0	1745.6	1818.6	1879.8	1948.0	2018.9
22.5°	1266.5	1339.0	1417.4	1503.7	1589.7	1680.7	1761.0	1833.6	1909.5	1986.2	2059.3
25°	1235.3	1310.5	1393.7	1488.2	1587.1	1680.0	1766.0	1856.1	1937.8	2021.0	2086.6
27.5°	1197.1	1276.0	1363.7	1461.3	1562.7	1657.9	1759.1	1855.2	1937.3	2017.5	2074.7
30°	1166.5	1249.8	1334.1	1432.9	1538.2	1640.2	1748.8	1844.9	1931.4	2003.4	2035.6
32.5°	1135.2	1214.2	1301.0	1401.2	1508.9	1618.8	1726.4	1824.7	1904.7	1947.9	1948.7
35°	1080.7	1154.7	1245.0	1343.2	1453.9	1573.2	1682.1	1778.8	1827.7	1831.5	1778.8
37.5°	1021.1	1089.1	1174.3	1272.6	1393.8	1512.5	1623.9	1688.3	1704.6	1649.9	1552.6
40°	978.6	1041.4	1123.6	1224.6	1344.8	1467.3	1568.8	1616.1	1598.9	1510.3	1401.8
42.5°	933.9	992.4	1071.6	1171.2	1292.0	1415.7	1502.2	1527.6	1482.1	1379.7	1252.7
45°	860.9	914.6	993.1	1093.5	1209.5	1325.5	1391.1	1378.2	1302.4	1181.0	1038.7
47.5°	785.0	836.9	907.5	1000.4	1119.1	1219.3	1263.6	1224.8	1117.0	983.5	867.7
50°	734.8	787.9	852.9	941.5	1050.0	1146.7	1175.2	1116.1	996.3	867.9	761.5
52.5°	685.3	730.7	794.5	880.1	983.8	1065.5	1080.7	1012.5	888.9	773.9	679.5
55°	610.2	651.5	705.2	785.8	875.5	944.7	936.6	849.1	736.9	638.6	564.5
57.5°	537.5	568.6	618.1	693.7	772.4	818.9	789.5	714.9	610.3	529.8	467.3
60°	489.3	518.3	564.5	630.6	699.8	726.1	701.5	620.4	537.7	464.0	411.4
62.5°	443.7	469.3	509.1	570.4	626.3	642.0	615.5	544.7	470.2	407.3	363.8
65°	377.6	401.2	435.0	478.6	517.3	524.7	507.6	435.0	378.6	326.0	295.9
67.5°	317.5	333.0	359.4	397.0	417.6	421.9	388.7	343.2	293.5	261.2	238.4
70°	277.1	287.9	312.6	333.0	349.6	350.2	319.5	283.1	244.9	218.6	202.0
72.5°	238.0	248.3	267.0	281.0	293.8	289.6	261.6	232.8	202.0	182.1	169.8
75°	183.7	192.8	202.5	208.9	208.9	203.6	183.2	161.7	143.9	132.1	128.4
77.5°	133.5	141.1	144.3	143.3	141.4	133.0	120.1	106.0	99.7	94.1	91.3
80°	104.7	108.0	109.1	106.3	103.1	93.4	84.8	79.0	73.0	70.9	69.8
82.5°	77.7	80.5	77.7	78.4	71.3	63.4	58.7	56.7	54.1	53.3	52.2
85°	41.4	40.8	39.8	37.1	32.2	31.1	30.6	30.1	29.0	29.6	28.5
87.5°	14.5	13.5	12.0	11.6	11.6	11.5	11.9	12.1	12.4	11.8	12.8
90°	1.7	3.4	4.0	4.6	4.6	8.1	8.1	9.2	10.4	9.8	10.4
92.5°	9.6	14.9	22.0	30.4	42.4	71.7	116.3	160.0	182.7	152.2	113.1
95°	20.7	26.5	34.0	47.8	72.0	122.1	216.6	354.3	469.5	482.7	426.9
97.5°	34.1	39.1	45.9	57.9	78.2	116.7	194.7	331.6	494.5	606.5	630.7
100°	43.8	47.8	54.7	65.6	84.1	118.1	183.2	300.7	463.1	610.7	694.8
102.5°	53.9	57.5	63.9	74.4	91.9	122.7	180.0	279.9	424.0	576.0	691.6
105°	69.2	72.0	79.0	89.3	106.0	133.6	181.5	262.2	377.9	513.3	645.2
107.5°	84.4	87.4	94.7	104.6	121.1	146.4	190.0	258.9	352.1	462.6	579.5
110°	95.0	98.0	104.8	115.2	130.8	156.1	196.4	259.8	343.4	437.3	539.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	105.2	108.6	115.0	125.3	140.9	165.3	203.4	262.6	339.2	422.9	510.8
115°	120.4	124.4	130.2	141.2	156.7	179.8	214.3	267.9	337.0	409.6	481.6
117.5°	135.5	139.1	145.4	155.6	171.8	193.7	225.5	273.5	336.4	403.6	467.3
120°	145.2	149.2	155.5	165.3	181.5	203.4	233.3	277.7	336.4	400.4	460.9
122.5°	154.4	158.4	164.3	175.0	190.7	212.6	240.7	281.9	336.0	396.7	455.3
125°	167.6	171.1	177.4	188.3	204.5	225.2	251.8	288.0	335.3	390.6	445.9
127.5°	177.9	182.1	189.2	200.7	216.9	237.0	261.4	293.0	334.0	382.4	434.3
130°	184.3	188.9	197.6	208.5	225.2	244.8	267.3	296.7	333.6	377.3	425.2
132.5°	189.9	195.9	204.1	215.9	231.7	251.3	273.3	299.9	333.1	372.7	415.5
135°	198.7	204.5	214.3	226.4	241.4	260.3	281.1	304.8	332.3	365.8	402.1
137.5°	207.0	213.4	222.7	235.3	249.5	267.3	286.7	307.6	332.2	359.8	390.0
140°	212.6	218.9	228.7	240.8	254.6	272.0	290.3	309.9	331.8	356.6	383.0
142.5°	219.0	224.9	234.2	245.9	259.2	276.1	293.1	311.7	331.8	353.9	376.7
145°	228.1	233.9	242.0	252.9	265.6	280.5	296.1	312.9	330.6	349.1	367.5
147.5°	237.2	242.3	250.5	259.7	271.1	285.2	298.7	313.4	328.6	344.9	360.0
150°	243.7	248.3	255.2	263.9	274.8	287.5	300.1	313.4	327.2	341.6	355.5
152.5°	249.2	253.8	260.2	268.0	278.0	289.3	301.0	312.5	324.9	337.9	350.3
155°	258.1	261.6	267.3	273.7	282.3	292.1	301.8	311.0	321.4	332.3	342.7
157.5°	265.7	268.9	273.4	278.9	285.7	294.1	301.8	309.6	317.9	326.8	334.6
160°	270.7	273.1	277.1	281.7	288.0	295.0	301.8	308.2	315.1	322.7	329.5
162.5°	274.9	276.7	280.3	284.5	289.4	295.9	301.8	306.8	312.4	318.9	324.5
165°	280.5	281.7	284.6	287.5	290.9	296.1	300.7	304.2	308.2	312.9	317.4
167.5°	285.2	285.7	287.9	289.5	292.2	296.0	299.3	301.4	304.1	307.3	310.6
170°	287.5	288.0	289.7	290.9	292.7	295.5	298.4	299.5	301.2	303.6	306.5
172.5°	289.7	289.8	291.1	291.9	293.1	295.1	297.5	297.7	298.5	300.3	302.8
175°	292.1	292.1	292.7	293.3	293.3	294.4	296.1	295.5	295.5	296.7	297.8
177.5°	293.3	292.8	293.3	293.3	293.3	293.7	294.6	293.7	293.7	294.2	294.6
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1398.4	1400.1	1401.4	1405.6	1406.0	1410.0	1406.0
5°	1514.0	1521.6	1533.4	1545.2	1546.3	1553.8	1540.3
7.5°	1643.8	1661.2	1672.0	1691.1	1698.7	1703.4	1695.7
10°	1733.1	1749.3	1777.8	1791.7	1805.6	1807.9	1801.4
12.5°	1819.6	1845.1	1867.5	1894.0	1893.3	1912.3	1905.3
15°	1934.6	1960.9	1992.1	2021.5	2032.4	2032.4	2040.9
17.5°	2016.6	2064.9	2097.1	2120.3	2145.7	2150.0	2147.1
20°	2072.0	2124.2	2158.6	2188.6	2205.8	2210.6	2210.6
22.5°	2113.3	2157.7	2191.2	2218.3	2232.4	2238.2	2236.4
25°	2141.9	2180.0	2200.4	2208.5	2212.2	2211.2	2201.0
27.5°	2102.7	2101.0	2088.2	2063.5	2044.9	2033.6	2020.7
30°	2028.0	2000.1	1967.9	1932.4	1886.7	1851.9	1841.1
32.5°	1916.7	1854.0	1799.5	1740.4	1691.3	1656.4	1641.7
35°	1701.5	1602.2	1521.1	1450.2	1398.6	1366.3	1355.6
37.5°	1446.0	1349.9	1249.5	1180.7	1138.0	1105.4	1093.3
40°	1283.6	1178.9	1091.4	1026.9	982.9	951.2	950.7
42.5°	1135.4	1035.4	953.0	906.6	859.1	838.2	838.1
45°	929.7	849.7	779.8	743.4	714.9	697.7	692.9
47.5°	769.7	703.6	657.0	627.9	604.7	593.8	586.7
50°	679.9	622.0	584.9	559.7	546.7	532.8	531.7
52.5°	605.2	558.4	529.5	509.0	492.6	484.2	484.4
55°	508.6	471.6	451.1	435.6	422.7	416.3	413.5
57.5°	428.5	400.7	385.9	371.5	366.1	361.0	359.6
60°	378.6	359.8	345.9	334.6	326.6	325.0	324.4
62.5°	337.4	317.7	308.1	299.3	293.5	290.9	290.0
65°	278.2	263.7	255.1	248.1	246.0	242.3	241.7
67.5°	224.3	215.6	209.8	205.1	202.2	202.0	202.0
70°	191.2	186.3	181.6	178.8	177.2	176.1	176.1
72.5°	162.9	159.3	155.3	153.9	153.6	152.5	152.1
75°	124.1	120.3	120.9	118.2	116.0	113.3	111.7
77.5°	88.0	85.3	84.7	84.4	82.6	82.3	83.1
80°	68.2	65.5	65.0	65.5	65.0	63.4	63.4
82.5°	51.9	49.6	49.1	48.8	48.3	48.8	47.9
85°	28.0	26.9	26.9	26.9	28.0	27.4	26.9
87.5°	12.1	11.7	12.2	11.9	12.0	11.4	11.9
90°	10.9	11.5	11.5	12.1	12.6	12.1	12.1
92.5°	85.1	67.8	56.2	49.4	46.4	44.3	44.3
95°	337.6	260.3	204.5	176.3	158.4	148.0	140.6
97.5°	597.5	541.2	481.0	439.7	405.0	387.7	375.7
100°	706.3	678.0	635.4	585.3	550.2	532.9	528.3
102.5°	748.7	756.9	739.1	708.3	682.9	664.7	661.0
105°	744.9	801.9	825.6	826.7	822.0	814.0	810.5
107.5°	685.5	765.9	817.2	845.7	858.8	864.5	866.1
110°	639.4	723.0	786.4	827.3	851.4	861.8	867.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	598.8	677.8	741.1	787.6	816.9	831.4	839.8
115°	552.5	619.9	675.2	720.6	755.3	773.7	778.3
117.5°	525.9	579.0	625.8	664.7	693.7	712.4	716.0
120°	514.4	560.5	601.4	634.3	659.6	674.6	681.0
122.5°	507.1	549.0	584.8	612.6	634.3	646.9	653.3
125°	495.4	535.1	566.8	589.9	606.6	617.5	621.0
127.5°	481.7	521.4	551.4	574.6	589.5	598.6	602.1
130°	470.7	509.8	540.4	564.0	578.3	587.6	591.1
132.5°	458.2	496.4	526.9	550.2	566.4	575.1	578.7
135°	439.6	474.6	503.5	526.5	542.7	551.9	555.3
137.5°	421.7	451.3	477.4	498.9	514.8	522.4	526.5
140°	410.2	436.1	460.3	480.5	493.1	501.2	505.8
142.5°	400.5	422.7	443.7	461.5	473.3	480.5	483.6
145°	387.1	404.5	420.5	434.9	444.7	450.5	453.3
147.5°	375.6	389.4	402.1	412.7	421.1	425.5	426.6
150°	368.7	380.2	390.6	399.8	407.3	410.7	411.3
152.5°	361.7	372.3	380.9	388.7	394.9	396.9	397.5
155°	351.9	360.6	367.5	373.3	377.9	379.6	379.6
157.5°	342.3	349.5	355.1	359.5	362.9	364.0	364.0
160°	335.9	342.1	346.8	350.2	353.8	354.3	354.3
162.5°	329.8	334.8	339.0	341.5	345.0	345.6	345.1
165°	320.8	324.9	327.8	330.1	332.3	331.8	331.2
167.5°	313.3	316.5	318.2	319.4	320.8	320.7	320.3
170°	308.2	310.5	312.3	313.4	314.0	313.4	313.4
172.5°	304.1	305.5	306.7	307.4	308.0	307.4	306.5
175°	298.4	299.5	299.5	299.5	300.7	299.5	298.4
177.5°	295.1	295.1	295.5	295.1	295.5	294.6	293.7
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3

(END OF REPORT)