

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: P332591-830

Luminaire Tested: **SA4XXDIP-C795D590U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332591-830
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: SA4XXDIP-C795D590U830-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

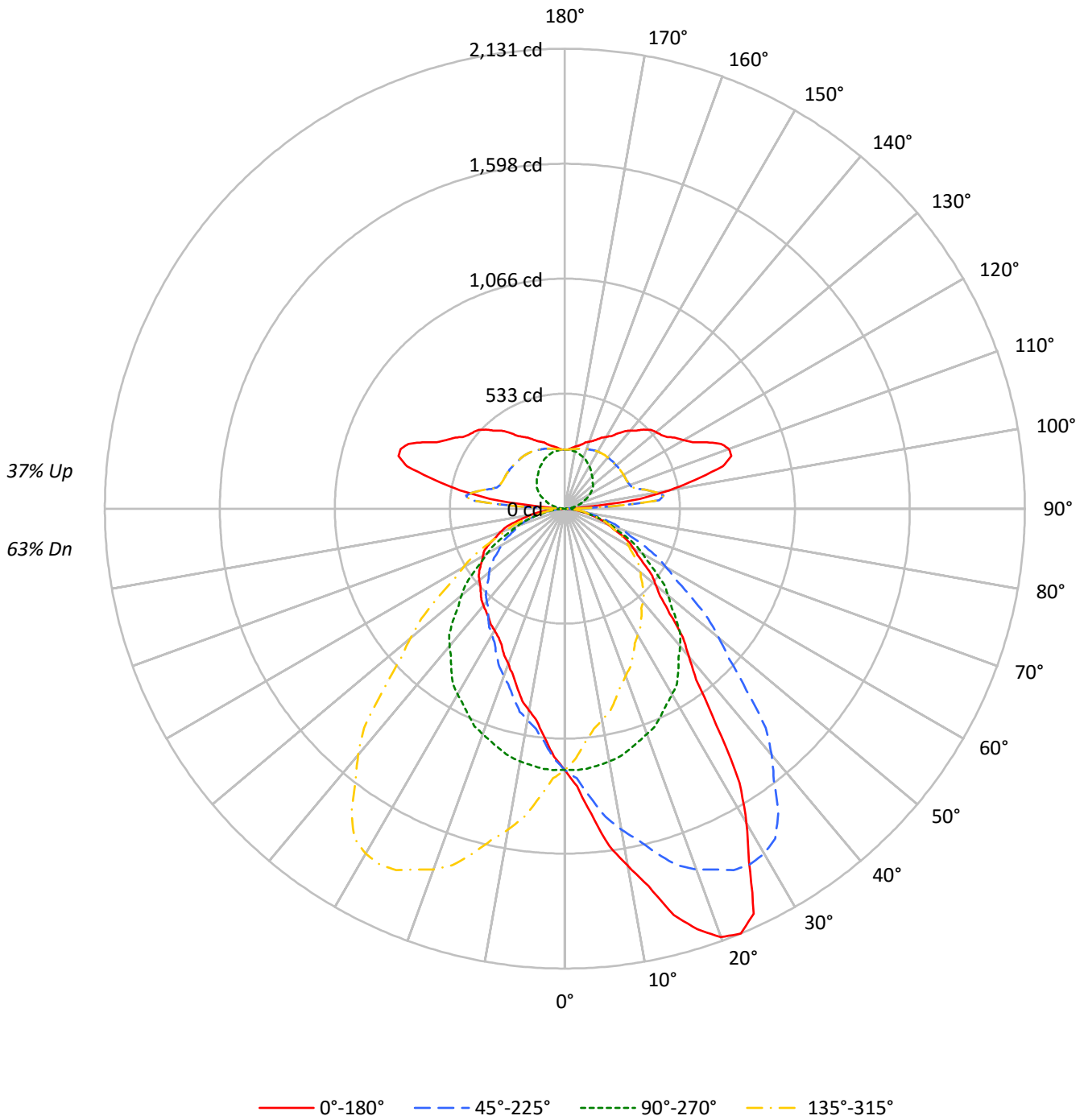
Lumens per Lamp: N/A
Luminaire Lumens: 5330.6 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

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	79	79	79	68	68	68	63
1	101	97	93	89	94	91	87	84	80	77	75	70	68	66	60	59	58	53
2	92	85	79	73	86	80	74	70	70	66	62	61	58	56	53	51	49	45
3	84	75	67	62	79	70	64	59	62	57	53	55	51	47	48	45	42	39
4	77	66	58	52	72	63	55	50	55	50	45	49	44	41	43	39	37	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	39	35	32	29
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26
7	61	48	40	35	57	46	39	33	41	35	31	36	32	28	32	28	25	23
8	56	44	36	31	53	42	35	30	37	32	27	33	29	25	30	26	23	20
9	53	40	33	28	49	38	31	27	34	29	25	31	26	23	27	23	21	19
10	49	37	30	25	46	35	29	24	32	26	22	28	24	20	25	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9769	9769	9769	9769
5°	11505	9794	8645	9794
10°	13774	9752	7783	9752
15°	16298	9653	7148	9653
20°	18148	9552	6580	9552
25°	18441	9404	6188	9404
30°	15691	9261	6065	9261
35°	12064	9030	6067	9030
40°	9403	8759	6181	8759
45°	7840	8350	6284	8350
50°	6900	7851	6498	7851
55°	6321	7253	6759	7253
60°	5924	6717	7074	6717
65°	5515	6118	7335	6118
70°	5042	5526	7501	5526
75°	4504	4863	7411	4863
80°	3775	3984	7178	3984
85°	2788	2881	6873	2881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	2.2
10°-20°	363.4	6.8
20°-30°	576.2	10.8
30°-40°	641.2	12.0
40°-50°	583.7	11.0
50°-60°	477.0	8.9
60°-70°	340.5	6.4
70°-80°	187.5	3.5
80°-90°	52.7	1.0
90°-100°	197.7	3.7
100°-110°	411.4	7.7
110°-120°	368.5	6.9
120°-130°	310.0	5.8
130°-140°	258.4	4.8
140°-150°	197.4	3.7
150°-160°	138.8	2.6
160°-170°	81.6	1.5
170°-180°	26.6	0.5
0°-30°	1057.5	19.8
0°-40°	1698.7	31.9
0°-60°	2759.4	51.8
0°-90°	3340.2	62.7
90°-120°	977.6	18.3
90°-150°	1743.4	32.7
90°-180°	1990.0	37.3
0°-180°	5330.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1210	1210	1210	1210	1210	
5°	1420	1209	1067	1209	1420	144
15°	1950	1155	855	1155	1950	551
25°	2070	1056	695	1056	2070	913
35°	1224	916	616	916	1224	777
45°	687	731	550	731	687	541
55°	449	515	480	515	449	406
65°	289	320	384	320	289	286
75°	144	156	238	156	144	154
85°	30	31	74	31	30	37
90°	11	1	11	1	11	10
95°	131	18	131	18	131	204
105°	756	63	756	63	756	748
115°	726	111	726	111	726	721
125°	580	154	580	154	580	527
135°	518	183	518	183	518	400
145°	423	211	423	211	423	268
155°	354	240	354	240	354	165
165°	309	262	309	262	309	89
175°	278	273	278	273	278	27
180°	274	274	274	274	274	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1287.9	1287.5	1283.5	1282.7	1279.9	1276.3	1275.4	1269.0	1256.2	1250.2	1248.6
5°	1419.7	1429.6	1416.6	1414.1	1412.6	1396.1	1387.5	1377.5	1354.4	1341.0	1330.4
7.5°	1576.9	1578.0	1572.3	1567.7	1555.0	1540.5	1518.9	1495.8	1468.4	1439.7	1418.2
10°	1680.3	1684.3	1677.8	1676.8	1651.2	1635.2	1603.1	1576.0	1544.9	1510.3	1478.8
12.5°	1789.4	1783.8	1780.5	1759.0	1754.3	1725.0	1687.7	1659.8	1611.9	1572.2	1530.1
15°	1950.0	1939.0	1931.9	1902.3	1887.8	1847.2	1807.6	1777.1	1714.4	1654.7	1609.6
17.5°	2044.2	2055.2	2039.0	2026.8	1989.2	1960.8	1920.3	1856.1	1807.1	1733.1	1676.1
20°	2112.4	2113.4	2104.4	2091.9	2062.3	2026.2	1982.1	1911.9	1853.2	1779.5	1701.4
22.5°	2130.8	2131.1	2127.2	2115.5	2093.1	2063.9	2019.4	1960.8	1889.7	1809.6	1731.5
25°	2070.3	2068.3	2072.8	2085.8	2077.3	2068.3	2042.7	1999.1	1933.0	1848.2	1764.0
27.5°	1845.3	1859.2	1884.6	1916.7	1947.6	1971.1	1977.7	1968.8	1927.8	1858.1	1769.9
30°	1683.3	1700.3	1719.4	1751.4	1813.6	1849.3	1888.3	1917.9	1901.4	1845.7	1763.5
32.5°	1505.2	1509.5	1537.8	1574.2	1631.2	1699.7	1761.6	1821.7	1841.6	1812.4	1743.9
35°	1224.1	1231.1	1261.7	1297.8	1367.5	1451.2	1544.5	1627.7	1696.3	1723.9	1688.8
37.5°	998.9	1019.1	1040.7	1079.5	1140.9	1216.2	1313.1	1420.7	1523.1	1591.7	1603.3
40°	892.3	904.8	920.4	949.9	1002.0	1076.3	1159.4	1282.8	1391.6	1489.8	1521.9
42.5°	808.0	815.4	824.9	851.7	891.4	965.2	1041.1	1149.6	1258.9	1376.3	1430.0
45°	686.7	694.3	710.3	725.9	755.9	807.1	877.7	967.0	1076.8	1190.1	1289.3
47.5°	599.2	604.0	613.5	630.1	655.6	689.4	746.9	821.4	923.1	1033.1	1138.9
50°	549.4	553.4	560.9	576.0	595.5	625.6	672.7	742.4	822.1	932.9	1036.6
52.5°	510.1	511.7	517.3	527.4	543.0	568.3	606.9	664.6	738.7	837.4	940.8
55°	449.1	451.2	456.2	463.7	477.2	493.2	522.8	565.9	630.7	716.3	806.1
57.5°	399.0	400.4	404.6	407.6	418.7	431.7	454.5	485.2	534.2	606.9	687.0
60°	366.9	365.9	371.0	373.4	381.0	392.0	409.5	439.1	481.7	540.4	614.1
62.5°	335.6	334.2	338.5	341.8	346.1	355.5	369.9	393.0	427.6	480.6	544.3
65°	288.7	286.7	289.3	293.2	297.3	302.3	312.8	333.4	360.9	399.0	447.6
67.5°	241.6	243.7	244.1	246.1	248.5	255.2	262.5	277.0	296.4	327.0	368.2
70°	213.6	214.1	216.0	216.0	217.5	223.6	229.6	238.1	257.1	285.2	318.8
72.5°	185.5	187.6	186.8	188.4	189.5	193.5	197.9	206.0	222.3	243.1	271.5
75°	144.4	145.9	145.9	146.4	147.9	149.4	152.9	158.9	170.4	186.0	205.6
77.5°	105.3	105.5	106.1	108.0	108.0	110.4	113.0	117.8	123.5	134.1	146.1
80°	81.2	82.2	81.7	82.8	82.8	84.7	85.7	91.7	94.3	101.2	110.7
82.5°	59.6	60.5	60.4	61.8	62.7	63.1	64.5	66.8	69.4	75.6	79.5
85°	30.1	31.1	30.1	31.1	32.6	33.1	34.6	35.1	37.1	38.6	42.1
87.5°	11.1	12.3	12.3	12.7	13.4	13.8	14.0	13.6	15.1	15.6	17.0
90°	11.3	11.3	11.8	11.3	10.7	10.7	10.2	9.7	9.1	9.7	8.6
92.5°	41.4	41.4	43.3	46.1	52.5	63.2	79.5	105.6	142.0	170.5	149.3
95°	131.2	138.2	147.9	164.6	190.9	243.0	315.1	398.4	450.5	438.2	330.6
97.5°	350.6	361.8	378.0	410.4	448.9	505.1	557.7	588.6	566.1	461.6	309.5
100°	493.0	497.4	513.5	546.3	593.0	632.8	659.2	648.5	570.0	432.3	280.7
102.5°	616.9	620.4	637.3	661.1	689.8	706.4	698.8	645.5	537.6	395.8	261.3
105°	756.5	759.7	767.2	771.6	770.5	748.5	695.2	602.2	479.1	352.7	244.7
107.5°	808.3	806.9	801.5	789.3	762.7	714.8	639.8	540.8	431.8	328.7	241.7
110°	809.2	804.4	794.7	772.1	734.0	674.8	596.8	503.8	408.1	320.5	242.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	783.8	776.0	762.4	735.1	691.7	632.6	558.9	476.7	394.7	316.6	245.1
115°	726.4	722.1	704.9	672.6	630.2	578.5	515.7	449.5	382.3	314.5	250.1
117.5°	668.3	664.9	647.4	620.4	584.1	540.4	490.9	436.1	376.7	314.0	255.2
120°	635.6	629.6	615.7	592.0	561.3	523.1	480.1	430.2	373.7	314.0	259.2
122.5°	609.7	603.8	592.0	571.7	545.8	512.4	473.3	425.0	370.2	313.6	263.1
125°	579.6	576.4	566.2	550.5	529.0	499.5	462.4	416.1	364.6	312.9	268.8
127.5°	561.9	558.7	550.2	536.3	514.6	486.6	449.6	405.4	356.9	311.7	273.4
130°	551.7	548.5	539.8	526.4	504.4	475.8	439.3	396.8	352.1	311.3	276.9
132.5°	540.1	536.8	528.7	513.5	491.8	463.4	427.6	387.8	347.9	310.9	279.9
135°	518.3	515.1	506.5	491.4	470.0	443.0	410.3	375.3	341.4	310.2	284.5
137.5°	491.4	487.6	480.5	465.6	445.5	421.2	393.6	364.0	335.8	310.1	287.1
140°	472.1	467.8	460.2	448.5	429.6	407.0	382.9	357.5	332.8	309.7	289.3
142.5°	451.4	448.5	441.8	430.7	414.2	394.5	373.8	351.6	330.3	309.7	291.0
145°	423.1	420.5	415.1	406.0	392.5	377.5	361.3	343.0	325.8	308.6	292.0
147.5°	398.1	397.1	393.0	385.2	375.3	363.4	350.5	336.0	321.9	306.7	292.5
150°	383.9	383.3	380.1	373.2	364.6	354.9	344.1	331.8	318.9	305.4	292.5
152.5°	371.0	370.4	368.5	362.8	355.5	347.5	337.6	327.0	315.4	303.2	291.6
155°	354.3	354.3	352.7	348.5	343.0	336.6	328.5	319.9	310.2	300.0	290.3
157.5°	339.7	339.7	338.7	335.5	331.4	326.2	319.5	312.3	305.0	296.7	289.0
160°	330.6	330.6	330.2	326.9	323.7	319.3	313.5	307.6	301.1	294.1	287.7
162.5°	322.1	322.5	322.0	318.8	316.4	312.5	307.8	302.8	297.7	291.5	286.3
165°	309.2	309.7	310.2	308.1	305.9	303.2	299.4	296.2	292.0	287.7	283.9
167.5°	299.0	299.4	299.4	298.1	297.0	295.4	292.4	289.9	286.8	283.8	281.3
170°	292.5	292.5	293.0	292.5	291.4	289.8	287.7	286.1	283.3	281.2	279.6
172.5°	286.1	286.9	287.5	286.9	286.3	285.1	283.8	282.6	280.3	278.6	277.9
175°	278.5	279.6	280.7	279.6	279.6	279.6	278.5	278.0	276.9	275.8	275.8
177.5°	274.1	274.9	275.8	275.4	275.8	275.4	275.4	274.9	274.6	274.1	274.1
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1249.0	1243.4	1239.3	1236.1	1227.4	1222.1	1218.1	1212.5	1206.1	1199.3	1190.8
5°	1319.8	1302.8	1290.3	1271.2	1253.2	1238.1	1222.7	1208.6	1191.6	1173.0	1159.4
7.5°	1394.4	1369.0	1336.5	1308.3	1276.7	1249.1	1224.5	1199.2	1172.9	1147.5	1124.1
10°	1441.7	1409.1	1373.0	1330.4	1290.3	1254.7	1221.6	1189.6	1158.5	1127.4	1100.8
12.5°	1492.6	1452.0	1398.6	1348.9	1303.9	1256.3	1216.4	1177.1	1139.6	1106.9	1075.9
15°	1560.9	1502.3	1440.7	1374.0	1314.8	1259.2	1204.6	1155.0	1112.9	1069.7	1039.6
17.5°	1603.0	1530.4	1459.9	1390.3	1318.7	1248.5	1189.6	1132.3	1079.6	1036.7	998.8
20°	1630.7	1558.5	1470.7	1401.1	1315.9	1243.7	1175.5	1111.8	1056.7	1011.1	971.9
22.5°	1654.7	1571.3	1483.6	1391.9	1307.0	1230.5	1155.8	1091.7	1035.5	987.4	949.9
25°	1667.7	1572.0	1476.8	1385.5	1289.3	1198.5	1130.9	1055.7	995.5	944.9	904.8
27.5°	1669.1	1566.8	1459.1	1357.6	1258.3	1173.8	1088.4	1021.2	958.8	905.2	866.7
30°	1664.7	1558.0	1442.2	1332.4	1232.7	1140.9	1066.8	993.5	929.9	876.8	836.6
32.5°	1650.7	1539.5	1420.5	1304.3	1201.0	1111.3	1034.6	965.1	903.1	850.6	808.6
35°	1610.1	1500.3	1373.5	1252.7	1146.9	1056.2	987.0	916.3	854.2	804.6	763.9
37.5°	1546.6	1447.4	1318.4	1193.4	1089.6	998.4	929.9	866.0	809.9	759.5	717.9
40°	1491.3	1404.1	1274.8	1152.9	1040.7	953.9	889.8	831.1	775.5	727.8	688.2
42.5°	1427.6	1351.5	1232.3	1103.2	994.9	907.9	845.3	792.6	740.2	696.2	656.6
45°	1313.8	1263.8	1151.4	1032.2	919.4	837.2	777.5	731.4	687.3	644.1	611.1
47.5°	1183.1	1158.3	1063.8	950.5	843.4	762.3	710.6	668.0	629.3	592.9	563.6
50°	1095.3	1083.3	1001.5	892.3	790.0	713.8	661.7	625.1	592.0	560.0	532.3
52.5°	1008.7	1008.2	934.6	834.5	739.9	666.5	614.7	580.6	552.0	525.8	501.1
55°	876.3	890.2	832.6	743.4	658.6	592.5	545.9	515.3	495.3	473.7	455.2
57.5°	754.6	777.9	730.4	651.8	581.1	520.1	479.6	456.6	435.2	422.2	408.7
60°	675.2	697.3	660.2	594.0	527.4	475.2	436.6	416.0	397.5	388.5	379.0
62.5°	604.6	624.3	596.8	535.5	477.6	427.5	394.9	375.1	362.6	352.8	346.5
65°	503.8	520.3	496.8	452.1	402.6	362.4	335.8	320.3	308.3	304.3	297.3
67.5°	407.3	422.3	409.5	371.6	331.9	301.4	280.7	265.8	258.6	255.1	250.2
70°	349.9	365.0	351.4	318.3	287.8	262.2	242.6	234.1	226.6	225.1	218.0
72.5°	301.3	311.6	298.0	272.2	246.0	224.5	209.3	200.4	196.5	193.8	190.0
75°	226.1	235.1	226.1	206.0	187.5	172.5	159.4	155.9	151.4	149.9	147.4
77.5°	160.0	167.9	160.9	148.4	134.5	122.9	115.9	111.4	110.4	107.7	109.0
80°	122.3	127.3	120.8	112.3	101.2	93.2	88.2	85.7	82.8	81.7	83.7
82.5°	87.8	90.0	86.7	81.0	72.8	67.6	64.2	61.3	60.7	60.9	60.9
85°	45.6	45.1	44.6	39.6	37.1	33.6	31.6	31.1	30.5	31.6	32.6
87.5°	16.8	17.2	16.1	14.5	13.2	11.9	11.1	10.6	11.1	11.9	12.3
90°	7.5	7.5	4.3	4.3	3.8	3.2	1.6	0.6	1.6	3.2	3.8
92.5°	108.6	66.9	39.6	28.4	20.5	13.9	9.0	6.1	9.0	13.9	20.5
95°	202.2	114.0	67.2	44.6	31.8	24.7	19.3	17.7	19.3	24.7	31.8
97.5°	181.7	109.0	73.0	54.0	42.9	36.5	31.9	31.9	31.9	36.5	42.9
100°	171.0	110.2	78.5	61.3	51.1	44.6	40.9	40.9	40.9	44.6	51.1
102.5°	168.0	114.5	85.8	69.5	59.7	53.6	50.3	49.5	50.3	53.6	59.7
105°	169.4	124.7	99.0	83.3	73.7	67.2	64.6	62.9	64.6	67.2	73.7
107.5°	177.3	136.7	113.0	97.6	88.4	81.5	78.8	77.8	78.8	81.5	88.4
110°	183.3	145.7	122.1	107.5	97.8	91.4	88.7	87.7	88.7	91.4	97.8



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CATALOG NUMBER: SA4XXDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	189.8	154.3	131.5	117.0	107.4	101.3	98.2	97.1	98.2	101.3	107.4
115°	200.0	167.8	146.3	131.8	121.5	116.1	112.4	110.7	112.4	116.1	121.5
117.5°	210.5	180.8	160.3	145.2	135.7	129.8	126.5	125.0	126.5	129.8	135.7
120°	217.7	189.8	169.4	154.3	145.2	139.2	135.5	134.4	135.5	139.2	145.2
122.5°	224.6	198.4	178.0	163.3	153.4	147.9	144.1	143.0	144.1	147.9	153.4
125°	235.0	210.2	190.9	175.8	165.6	159.7	156.5	154.3	156.5	159.7	165.6
127.5°	243.9	221.2	202.5	187.3	176.6	169.9	166.1	164.3	166.1	169.9	176.6
130°	249.5	228.5	210.2	194.6	184.5	176.3	172.0	169.9	172.0	176.3	184.5
132.5°	255.1	234.5	216.2	201.5	190.5	182.9	177.2	175.5	177.2	182.9	190.5
135°	262.4	243.0	225.3	211.3	200.0	190.9	185.5	183.3	185.5	190.9	200.0
137.5°	267.6	249.5	232.9	219.6	207.8	199.2	193.2	191.2	193.2	199.2	207.8
140°	271.0	253.8	237.6	224.7	213.5	204.3	198.4	196.8	198.4	204.3	213.5
142.5°	273.5	257.7	242.0	229.5	218.6	209.9	204.4	202.8	204.4	209.9	218.6
145°	276.4	261.8	247.9	236.0	225.8	218.3	212.9	211.3	212.9	218.3	225.8
147.5°	278.8	266.2	253.1	242.4	233.8	226.1	221.4	220.8	221.4	226.1	233.8
150°	280.1	268.3	256.5	246.3	238.2	231.8	227.4	226.9	227.4	231.8	238.2
152.5°	281.0	270.0	259.5	250.2	242.9	236.9	232.6	232.5	232.6	236.9	242.9
155°	281.7	272.6	263.4	255.4	249.5	244.1	240.9	240.3	240.9	244.1	249.5
157.5°	281.7	274.5	266.6	260.3	255.1	251.0	248.0	248.0	248.0	251.0	255.1
160°	281.7	275.3	268.8	262.9	258.6	254.9	252.7	252.7	252.7	254.9	258.6
162.5°	281.7	276.2	270.1	265.5	261.6	258.3	256.6	257.0	256.6	258.3	261.6
165°	280.7	276.4	271.5	268.3	265.6	262.9	261.8	261.8	261.8	262.9	265.6
167.5°	279.4	276.3	272.7	270.2	268.7	266.6	266.2	266.6	266.2	266.6	268.7
170°	278.5	275.8	273.1	271.5	270.4	268.8	268.3	268.8	268.3	268.8	270.4
172.5°	277.7	275.4	273.5	272.4	271.7	270.5	270.4	271.0	270.4	270.5	271.7
175°	276.4	274.8	273.7	273.7	273.1	272.6	272.6	273.1	272.6	272.6	273.1
177.5°	274.9	274.1	273.7	273.7	273.7	273.2	273.7	274.1	273.7	273.2	273.7
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332591-830

CATALOG NUMBER: SA4XXDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1186.8	1183.3	1178.0	1170.8	1164.8	1158.4	1156.8	1154.3	1159.1	1155.2	1154.0
5°	1147.9	1137.4	1123.9	1108.3	1099.3	1086.3	1083.7	1078.7	1073.7	1073.3	1068.2
7.5°	1106.7	1091.3	1073.6	1057.7	1043.0	1028.8	1019.5	1017.5	1010.1	1005.8	1000.8
10°	1080.2	1061.2	1040.7	1025.6	1008.6	993.5	983.0	977.0	971.9	966.5	961.5
12.5°	1049.0	1028.7	1011.8	995.5	975.2	963.8	946.5	936.1	935.1	935.2	922.2
15°	1012.6	992.5	966.5	943.4	932.4	910.3	900.8	888.7	881.3	873.7	867.7
17.5°	971.0	946.0	925.7	899.2	878.2	860.6	848.1	840.8	829.5	818.9	811.2
20°	944.9	918.3	896.8	868.7	845.6	824.1	813.6	803.5	795.0	786.0	777.5
22.5°	918.4	890.7	864.3	837.1	815.6	792.9	782.7	769.0	760.9	755.9	747.4
25°	876.8	846.7	816.6	790.5	768.5	748.4	734.9	724.3	715.3	711.3	705.8
27.5°	831.4	801.5	772.5	742.9	717.8	703.3	692.5	684.6	679.3	674.0	671.6
30°	802.6	771.5	740.4	712.8	689.8	675.2	665.2	659.7	655.6	653.2	650.6
32.5°	773.3	742.6	709.9	684.8	664.1	651.2	643.6	638.0	636.0	635.1	634.2
35°	726.3	695.3	665.2	642.6	623.1	618.1	611.5	608.6	607.6	611.1	612.6
37.5°	680.9	652.1	624.4	602.6	589.7	582.4	580.1	580.3	583.9	587.0	590.6
40°	651.7	623.6	597.6	578.4	566.5	561.9	560.9	563.5	567.4	571.0	575.0
42.5°	623.2	595.5	571.8	554.0	545.6	541.5	542.1	544.6	550.2	554.5	560.5
45°	579.0	555.9	532.8	518.3	511.3	512.3	512.3	516.8	522.4	528.9	535.4
47.5°	537.3	514.2	495.1	483.0	479.3	478.4	481.3	487.1	495.0	503.1	512.2
50°	509.3	487.2	470.7	459.7	455.6	457.1	461.2	466.7	476.2	486.3	495.8
52.5°	480.8	460.8	445.4	435.2	432.4	435.1	439.1	447.8	456.2	467.0	478.5
55°	436.6	419.5	407.6	400.0	399.0	400.5	405.0	414.5	426.6	440.2	451.2
57.5°	392.6	378.3	367.3	362.1	362.6	364.0	371.5	382.8	395.6	410.0	424.2
60°	363.0	349.9	340.9	336.9	337.3	340.4	349.4	360.0	376.0	390.0	405.0
62.5°	334.9	323.4	314.8	311.2	310.5	317.1	325.7	336.7	352.7	368.3	384.6
65°	289.7	280.7	273.7	271.7	273.2	278.2	289.3	303.8	317.4	333.8	350.9
67.5°	245.6	238.2	233.4	234.3	236.1	243.6	252.8	265.2	280.6	297.7	314.6
70°	217.5	210.6	206.5	207.0	210.0	219.0	227.1	239.6	256.2	273.7	287.8
72.5°	188.7	184.1	180.5	182.6	185.6	191.8	201.8	214.3	228.8	245.2	260.0
75°	144.9	144.9	142.9	144.4	148.9	154.9	162.4	175.4	190.0	203.0	215.1
77.5°	107.4	106.4	107.6	109.5	112.1	119.2	127.8	137.1	148.1	161.1	171.1
80°	82.2	82.8	85.2	88.2	89.3	94.7	103.8	112.3	120.8	131.9	141.4
82.5°	61.7	62.3	63.5	67.4	68.3	74.3	80.1	88.6	96.3	103.8	111.7
85°	33.6	33.6	36.1	37.6	40.1	44.1	47.6	52.6	59.7	64.7	72.2
87.5°	13.7	13.7	15.9	16.8	18.2	20.4	21.1	25.6	27.3	29.4	33.0
90°	4.3	4.3	7.5	7.5	8.6	9.7	9.1	9.7	10.2	10.7	10.7
92.5°	28.4	39.6	66.9	108.6	149.3	170.5	142.0	105.6	79.5	63.2	52.5
95°	44.6	67.2	114.0	202.2	330.6	438.2	450.5	398.4	315.1	243.0	190.9
97.5°	54.0	73.0	109.0	181.7	309.5	461.6	566.1	588.6	557.7	505.1	448.9
100°	61.3	78.5	110.2	171.0	280.7	432.3	570.0	648.5	659.2	632.8	593.0
102.5°	69.5	85.8	114.5	168.0	261.3	395.8	537.6	645.5	698.8	706.4	689.8
105°	83.3	99.0	124.7	169.4	244.7	352.7	479.1	602.2	695.2	748.5	770.5
107.5°	97.6	113.0	136.7	177.3	241.7	328.7	431.8	540.8	639.8	714.8	762.7
110°	107.5	122.1	145.7	183.3	242.5	320.5	408.1	503.8	596.8	674.8	734.0



TEST NUMBER: P332591-830

CATALOG NUMBER: SA4XXDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	117.0	131.5	154.3	189.8	245.1	316.6	394.7	476.7	558.9	632.6	691.7
115°	131.8	146.3	167.8	200.0	250.1	314.5	382.3	449.5	515.7	578.5	630.2
117.5°	145.2	160.3	180.8	210.5	255.2	314.0	376.7	436.1	490.9	540.4	584.1
120°	154.3	169.4	189.8	217.7	259.2	314.0	373.7	430.2	480.1	523.1	561.3
122.5°	163.3	178.0	198.4	224.6	263.1	313.6	370.2	425.0	473.3	512.4	545.8
125°	175.8	190.9	210.2	235.0	268.8	312.9	364.6	416.1	462.4	499.5	529.0
127.5°	187.3	202.5	221.2	243.9	273.4	311.7	356.9	405.4	449.6	486.6	514.6
130°	194.6	210.2	228.5	249.5	276.9	311.3	352.1	396.8	439.3	475.8	504.4
132.5°	201.5	216.2	234.5	255.1	279.9	310.9	347.9	387.8	427.6	463.4	491.8
135°	211.3	225.3	243.0	262.4	284.5	310.2	341.4	375.3	410.3	443.0	470.0
137.5°	219.6	232.9	249.5	267.6	287.1	310.1	335.8	364.0	393.6	421.2	445.5
140°	224.7	237.6	253.8	271.0	289.3	309.7	332.8	357.5	382.9	407.0	429.6
142.5°	229.5	242.0	257.7	273.5	291.0	309.7	330.3	351.6	373.8	394.5	414.2
145°	236.0	247.9	261.8	276.4	292.0	308.6	325.8	343.0	361.3	377.5	392.5
147.5°	242.4	253.1	266.2	278.8	292.5	306.7	321.9	336.0	350.5	363.4	375.3
150°	246.3	256.5	268.3	280.1	292.5	305.4	318.9	331.8	344.1	354.9	364.6
152.5°	250.2	259.5	270.0	281.0	291.6	303.2	315.4	327.0	337.6	347.5	355.5
155°	255.4	263.4	272.6	281.7	290.3	300.0	310.2	319.9	328.5	336.6	343.0
157.5°	260.3	266.6	274.5	281.7	289.0	296.7	305.0	312.3	319.5	326.2	331.4
160°	262.9	268.8	275.3	281.7	287.7	294.1	301.1	307.6	313.5	319.3	323.7
162.5°	265.5	270.1	276.2	281.7	286.3	291.5	297.7	302.8	307.8	312.5	316.4
165°	268.3	271.5	276.4	280.7	283.9	287.7	292.0	296.2	299.4	303.2	305.9
167.5°	270.2	272.7	276.3	279.4	281.3	283.8	286.8	289.9	292.4	295.4	297.0
170°	271.5	273.1	275.8	278.5	279.6	281.2	283.3	286.1	287.7	289.8	291.4
172.5°	272.4	273.5	275.4	277.7	277.9	278.6	280.3	282.6	283.8	285.1	286.3
175°	273.7	273.7	274.8	276.4	275.8	275.8	276.9	278.0	278.5	279.6	279.6
177.5°	273.7	273.7	274.1	274.9	274.1	274.1	274.6	274.9	275.4	275.4	275.8
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332591-830

CATALOG NUMBER: SA4XXDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1153.1	1152.4	1149.5	1149.1	1149.5	1152.4	1153.1	1154.0	1155.2	1159.1	1154.3
5°	1065.3	1062.7	1061.2	1066.8	1061.2	1062.7	1065.3	1068.2	1073.3	1073.7	1078.7
7.5°	998.9	996.9	992.5	991.2	992.5	996.9	998.9	1000.8	1005.8	1010.1	1017.5
10°	956.4	954.4	950.5	949.4	950.5	954.4	956.4	961.5	966.5	971.9	977.0
12.5°	915.5	911.5	910.7	911.7	910.7	911.5	915.5	922.2	935.2	935.1	936.1
15°	861.2	859.2	853.7	855.2	853.7	859.2	861.2	867.7	873.7	881.3	888.7
17.5°	807.7	805.2	798.5	804.5	798.5	805.2	807.7	811.2	818.9	829.5	840.8
20°	774.0	770.0	766.5	765.9	766.5	770.0	774.0	777.5	786.0	795.0	803.5
22.5°	741.9	738.3	738.0	734.7	738.0	738.3	741.9	747.4	755.9	760.9	769.0
25°	701.8	698.3	697.3	694.7	697.3	698.3	701.8	705.8	711.3	715.3	724.3
27.5°	671.0	669.3	667.5	668.3	667.5	669.3	671.0	671.6	674.0	679.3	684.6
30°	652.1	651.7	650.6	650.6	650.6	651.7	652.1	650.6	653.2	655.6	659.7
32.5°	636.5	636.4	637.1	637.1	637.1	636.4	636.5	634.2	635.1	636.0	638.0
35°	614.5	616.0	617.1	615.6	617.1	616.0	614.5	612.6	611.1	607.6	608.6
37.5°	594.7	596.3	597.7	599.4	597.7	596.3	594.7	590.6	587.0	583.9	580.3
40°	579.5	583.0	584.0	586.5	584.0	583.0	579.5	575.0	571.0	567.4	563.5
42.5°	565.1	568.9	571.6	572.0	571.6	568.9	565.1	560.5	554.5	550.2	544.6
45°	542.9	546.9	550.4	550.4	550.4	546.9	542.9	535.4	528.9	522.4	516.8
47.5°	519.9	525.8	529.2	530.2	529.2	525.8	519.9	512.2	503.1	495.0	487.1
50°	504.3	511.3	514.8	517.4	514.8	511.3	504.3	495.8	486.3	476.2	466.7
52.5°	489.1	496.1	500.8	502.1	500.8	496.1	489.1	478.5	467.0	456.2	447.8
55°	462.7	472.7	478.2	480.2	478.2	472.7	462.7	451.2	440.2	426.6	414.5
57.5°	437.8	447.0	453.5	455.0	453.5	447.0	437.8	424.2	410.0	395.6	382.8
60°	418.6	428.6	436.6	438.1	436.6	428.6	418.6	405.0	390.0	376.0	360.0
62.5°	398.9	409.3	416.6	420.5	416.6	409.3	398.9	384.6	368.3	352.7	336.7
65°	365.0	375.4	382.5	384.0	382.5	375.4	365.0	350.9	333.8	317.4	303.8
67.5°	327.8	338.4	343.0	345.9	343.0	338.4	327.8	314.6	297.7	280.6	265.2
70°	301.8	310.3	315.3	317.8	315.3	310.3	301.8	287.8	273.7	256.2	239.6
72.5°	272.1	281.0	286.8	287.3	286.8	281.0	272.1	260.0	245.2	228.8	214.3
75°	226.6	234.6	237.6	237.6	237.6	234.6	226.6	215.1	203.0	190.0	175.4
77.5°	179.4	183.5	187.3	188.0	187.3	183.5	179.4	171.1	161.1	148.1	137.1
80°	148.9	151.4	154.4	154.4	154.4	151.4	148.9	141.4	131.9	120.8	112.3
82.5°	117.6	119.7	122.7	122.3	122.7	119.7	117.6	111.7	103.8	96.3	88.6
85°	71.2	75.7	75.2	74.2	75.2	75.7	71.2	72.2	64.7	59.7	52.6
87.5°	34.3	34.9	35.9	36.8	35.9	34.9	34.3	33.0	29.4	27.3	25.6
90°	11.3	11.8	11.3	11.3	11.3	11.8	11.3	10.7	10.7	10.2	9.7
92.5°	46.1	43.3	41.4	41.4	41.4	43.3	46.1	52.5	63.2	79.5	105.6
95°	164.6	147.9	138.2	131.2	138.2	147.9	164.6	190.9	243.0	315.1	398.4
97.5°	410.4	378.0	361.8	350.6	361.8	378.0	410.4	448.9	505.1	557.7	588.6
100°	546.3	513.5	497.4	493.0	497.4	513.5	546.3	593.0	632.8	659.2	648.5
102.5°	661.1	637.3	620.4	616.9	620.4	637.3	661.1	689.8	706.4	698.8	645.5
105°	771.6	767.2	759.7	756.5	759.7	767.2	771.6	770.5	748.5	695.2	602.2
107.5°	789.3	801.5	806.9	808.3	806.9	801.5	789.3	762.7	714.8	639.8	540.8
110°	772.1	794.7	804.4	809.2	804.4	794.7	772.1	734.0	674.8	596.8	503.8



TEST NUMBER: P332591-830

CATALOG NUMBER: SA4XXDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	735.1	762.4	776.0	783.8	776.0	762.4	735.1	691.7	632.6	558.9	476.7
115°	672.6	704.9	722.1	726.4	722.1	704.9	672.6	630.2	578.5	515.7	449.5
117.5°	620.4	647.4	664.9	668.3	664.9	647.4	620.4	584.1	540.4	490.9	436.1
120°	592.0	615.7	629.6	635.6	629.6	615.7	592.0	561.3	523.1	480.1	430.2
122.5°	571.7	592.0	603.8	609.7	603.8	592.0	571.7	545.8	512.4	473.3	425.0
125°	550.5	566.2	576.4	579.6	576.4	566.2	550.5	529.0	499.5	462.4	416.1
127.5°	536.3	550.2	558.7	561.9	558.7	550.2	536.3	514.6	486.6	449.6	405.4
130°	526.4	539.8	548.5	551.7	548.5	539.8	526.4	504.4	475.8	439.3	396.8
132.5°	513.5	528.7	536.8	540.1	536.8	528.7	513.5	491.8	463.4	427.6	387.8
135°	491.4	506.5	515.1	518.3	515.1	506.5	491.4	470.0	443.0	410.3	375.3
137.5°	465.6	480.5	487.6	491.4	487.6	480.5	465.6	445.5	421.2	393.6	364.0
140°	448.5	460.2	467.8	472.1	467.8	460.2	448.5	429.6	407.0	382.9	357.5
142.5°	430.7	441.8	448.5	451.4	448.5	441.8	430.7	414.2	394.5	373.8	351.6
145°	406.0	415.1	420.5	423.1	420.5	415.1	406.0	392.5	377.5	361.3	343.0
147.5°	385.2	393.0	397.1	398.1	397.1	393.0	385.2	375.3	363.4	350.5	336.0
150°	373.2	380.1	383.3	383.9	383.3	380.1	373.2	364.6	354.9	344.1	331.8
152.5°	362.8	368.5	370.4	371.0	370.4	368.5	362.8	355.5	347.5	337.6	327.0
155°	348.5	352.7	354.3	354.3	354.3	352.7	348.5	343.0	336.6	328.5	319.9
157.5°	335.5	338.7	339.7	339.7	339.7	338.7	335.5	331.4	326.2	319.5	312.3
160°	326.9	330.2	330.6	330.6	330.6	330.2	326.9	323.7	319.3	313.5	307.6
162.5°	318.8	322.0	322.5	322.1	322.5	322.0	318.8	316.4	312.5	307.8	302.8
165°	308.1	310.2	309.7	309.2	309.7	310.2	308.1	305.9	303.2	299.4	296.2
167.5°	298.1	299.4	299.4	299.0	299.4	299.4	298.1	297.0	295.4	292.4	289.9
170°	292.5	293.0	292.5	292.5	292.5	293.0	292.5	291.4	289.8	287.7	286.1
172.5°	286.9	287.5	286.9	286.1	286.9	287.5	286.9	286.3	285.1	283.8	282.6
175°	279.6	280.7	279.6	278.5	279.6	280.7	279.6	279.6	279.6	278.5	278.0
177.5°	275.4	275.8	274.9	274.1	274.9	275.8	275.4	275.8	275.4	275.4	274.9
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332591-830

CATALOG NUMBER: SA4XXDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1156.8	1158.4	1164.8	1170.8	1178.0	1183.3	1186.8	1190.8	1199.3	1206.1	1212.5
5°	1083.7	1086.3	1099.3	1108.3	1123.9	1137.4	1147.9	1159.4	1173.0	1191.6	1208.6
7.5°	1019.5	1028.8	1043.0	1057.7	1073.6	1091.3	1106.7	1124.1	1147.5	1172.9	1199.2
10°	983.0	993.5	1008.6	1025.6	1040.7	1061.2	1080.2	1100.8	1127.4	1158.5	1189.6
12.5°	946.5	963.8	975.2	995.5	1011.8	1028.7	1049.0	1075.9	1106.9	1139.6	1177.1
15°	900.8	910.3	932.4	943.4	966.5	992.5	1012.6	1039.6	1069.7	1112.9	1155.0
17.5°	848.1	860.6	878.2	899.2	925.7	946.0	971.0	998.8	1036.7	1079.6	1132.3
20°	813.6	824.1	845.6	868.7	896.8	918.3	944.9	971.9	1011.1	1056.7	1111.8
22.5°	782.7	792.9	815.6	837.1	864.3	890.7	918.4	949.9	987.4	1035.5	1091.7
25°	734.9	748.4	768.5	790.5	816.6	846.7	876.8	904.8	944.9	995.5	1055.7
27.5°	692.5	703.3	717.8	742.9	772.5	801.5	831.4	866.7	905.2	958.8	1021.2
30°	665.2	675.2	689.8	712.8	740.4	771.5	802.6	836.6	876.8	929.9	993.5
32.5°	643.6	651.2	664.1	684.8	709.9	742.6	773.3	808.6	850.6	903.1	965.1
35°	611.5	618.1	623.1	642.6	665.2	695.3	726.3	763.9	804.6	854.2	916.3
37.5°	580.1	582.4	589.7	602.6	624.4	652.1	680.9	717.9	759.5	809.9	866.0
40°	560.9	561.9	566.5	578.4	597.6	623.6	651.7	688.2	727.8	775.5	831.1
42.5°	542.1	541.5	545.6	554.0	571.8	595.5	623.2	656.6	696.2	740.2	792.6
45°	512.3	512.3	511.3	518.3	532.8	555.9	579.0	611.1	644.1	687.3	731.4
47.5°	481.3	478.4	479.3	483.0	495.1	514.2	537.3	563.6	592.9	629.3	668.0
50°	461.2	457.1	455.6	459.7	470.7	487.2	509.3	532.3	560.0	592.0	625.1
52.5°	439.1	435.1	432.4	435.2	445.4	460.8	480.8	501.1	525.8	552.0	580.6
55°	405.0	400.5	399.0	400.0	407.6	419.5	436.6	455.2	473.7	495.3	515.3
57.5°	371.5	364.0	362.6	362.1	367.3	378.3	392.6	408.7	422.2	435.2	456.6
60°	349.4	340.4	337.3	336.9	340.9	349.9	363.0	379.0	388.5	397.5	416.0
62.5°	325.7	317.1	310.5	311.2	314.8	323.4	334.9	346.5	352.8	362.6	375.1
65°	289.3	278.2	273.2	271.7	273.7	280.7	289.7	297.3	304.3	308.3	320.3
67.5°	252.8	243.6	236.1	234.3	233.4	238.2	245.6	250.2	255.1	258.6	265.8
70°	227.1	219.0	210.0	207.0	206.5	210.6	217.5	218.0	225.1	226.6	234.1
72.5°	201.8	191.8	185.6	182.6	180.5	184.1	188.7	190.0	193.8	196.5	200.4
75°	162.4	154.9	148.9	144.4	142.9	144.9	144.9	147.4	149.9	151.4	155.9
77.5°	127.8	119.2	112.1	109.5	107.6	106.4	107.4	109.0	107.7	110.4	111.4
80°	103.8	94.7	89.3	88.2	85.2	82.8	82.2	83.7	81.7	82.8	85.7
82.5°	80.1	74.3	68.3	67.4	63.5	62.3	61.7	60.9	60.9	60.7	61.3
85°	47.6	44.1	40.1	37.6	36.1	33.6	33.6	32.6	31.6	30.5	31.1
87.5°	21.1	20.4	18.2	16.8	15.9	13.7	13.7	12.3	11.9	11.1	10.6
90°	9.1	9.7	8.6	7.5	7.5	4.3	4.3	3.8	3.2	1.6	0.6
92.5°	142.0	170.5	149.3	108.6	66.9	39.6	28.4	20.5	13.9	9.0	6.1
95°	450.5	438.2	330.6	202.2	114.0	67.2	44.6	31.8	24.7	19.3	17.7
97.5°	566.1	461.6	309.5	181.7	109.0	73.0	54.0	42.9	36.5	31.9	31.9
100°	570.0	432.3	280.7	171.0	110.2	78.5	61.3	51.1	44.6	40.9	40.9
102.5°	537.6	395.8	261.3	168.0	114.5	85.8	69.5	59.7	53.6	50.3	49.5
105°	479.1	352.7	244.7	169.4	124.7	99.0	83.3	73.7	67.2	64.6	62.9
107.5°	431.8	328.7	241.7	177.3	136.7	113.0	97.6	88.4	81.5	78.8	77.8
110°	408.1	320.5	242.5	183.3	145.7	122.1	107.5	97.8	91.4	88.7	87.7



TEST NUMBER: P332591-830

CATALOG NUMBER: SA4XXDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	394.7	316.6	245.1	189.8	154.3	131.5	117.0	107.4	101.3	98.2	97.1
115°	382.3	314.5	250.1	200.0	167.8	146.3	131.8	121.5	116.1	112.4	110.7
117.5°	376.7	314.0	255.2	210.5	180.8	160.3	145.2	135.7	129.8	126.5	125.0
120°	373.7	314.0	259.2	217.7	189.8	169.4	154.3	145.2	139.2	135.5	134.4
122.5°	370.2	313.6	263.1	224.6	198.4	178.0	163.3	153.4	147.9	144.1	143.0
125°	364.6	312.9	268.8	235.0	210.2	190.9	175.8	165.6	159.7	156.5	154.3
127.5°	356.9	311.7	273.4	243.9	221.2	202.5	187.3	176.6	169.9	166.1	164.3
130°	352.1	311.3	276.9	249.5	228.5	210.2	194.6	184.5	176.3	172.0	169.9
132.5°	347.9	310.9	279.9	255.1	234.5	216.2	201.5	190.5	182.9	177.2	175.5
135°	341.4	310.2	284.5	262.4	243.0	225.3	211.3	200.0	190.9	185.5	183.3
137.5°	335.8	310.1	287.1	267.6	249.5	232.9	219.6	207.8	199.2	193.2	191.2
140°	332.8	309.7	289.3	271.0	253.8	237.6	224.7	213.5	204.3	198.4	196.8
142.5°	330.3	309.7	291.0	273.5	257.7	242.0	229.5	218.6	209.9	204.4	202.8
145°	325.8	308.6	292.0	276.4	261.8	247.9	236.0	225.8	218.3	212.9	211.3
147.5°	321.9	306.7	292.5	278.8	266.2	253.1	242.4	233.8	226.1	221.4	220.8
150°	318.9	305.4	292.5	280.1	268.3	256.5	246.3	238.2	231.8	227.4	226.9
152.5°	315.4	303.2	291.6	281.0	270.0	259.5	250.2	242.9	236.9	232.6	232.5
155°	310.2	300.0	290.3	281.7	272.6	263.4	255.4	249.5	244.1	240.9	240.3
157.5°	305.0	296.7	289.0	281.7	274.5	266.6	260.3	255.1	251.0	248.0	248.0
160°	301.1	294.1	287.7	281.7	275.3	268.8	262.9	258.6	254.9	252.7	252.7
162.5°	297.7	291.5	286.3	281.7	276.2	270.1	265.5	261.6	258.3	256.6	257.0
165°	292.0	287.7	283.9	280.7	276.4	271.5	268.3	265.6	262.9	261.8	261.8
167.5°	286.8	283.8	281.3	279.4	276.3	272.7	270.2	268.7	266.6	266.2	266.6
170°	283.3	281.2	279.6	278.5	275.8	273.1	271.5	270.4	268.8	268.3	268.8
172.5°	280.3	278.6	277.9	277.7	275.4	273.5	272.4	271.7	270.5	270.4	271.0
175°	276.9	275.8	275.8	276.4	274.8	273.7	273.7	273.1	272.6	272.6	273.1
177.5°	274.6	274.1	274.1	274.9	274.1	273.7	273.7	273.7	273.2	273.7	274.1
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332591-830

CATALOG NUMBER: SA4XXDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1218.1	1222.1	1227.4	1236.1	1239.3	1243.4	1249.0	1248.6	1250.2	1256.2	1269.0
5°	1222.7	1238.1	1253.2	1271.2	1290.3	1302.8	1319.8	1330.4	1341.0	1354.4	1377.5
7.5°	1224.5	1249.1	1276.7	1308.3	1336.5	1369.0	1394.4	1418.2	1439.7	1468.4	1495.8
10°	1221.6	1254.7	1290.3	1330.4	1373.0	1409.1	1441.7	1478.8	1510.3	1544.9	1576.0
12.5°	1216.4	1256.3	1303.9	1348.9	1398.6	1452.0	1492.6	1530.1	1572.2	1611.9	1659.8
15°	1204.6	1259.2	1314.8	1374.0	1440.7	1502.3	1560.9	1609.6	1654.7	1714.4	1777.1
17.5°	1189.6	1248.5	1318.7	1390.3	1459.9	1530.4	1603.0	1676.1	1733.1	1807.1	1856.1
20°	1175.5	1243.7	1315.9	1401.1	1470.7	1558.5	1630.7	1701.4	1779.5	1853.2	1911.9
22.5°	1155.8	1230.5	1307.0	1391.9	1483.6	1571.3	1654.7	1731.5	1809.6	1889.7	1960.8
25°	1130.9	1198.5	1289.3	1385.5	1476.8	1572.0	1667.7	1764.0	1848.2	1933.0	1999.1
27.5°	1088.4	1173.8	1258.3	1357.6	1459.1	1566.8	1669.1	1769.9	1858.1	1927.8	1968.8
30°	1066.8	1140.9	1232.7	1332.4	1442.2	1558.0	1664.7	1763.5	1845.7	1901.4	1917.9
32.5°	1034.6	1111.3	1201.0	1304.3	1420.5	1539.5	1650.7	1743.9	1812.4	1841.6	1821.7
35°	987.0	1056.2	1146.9	1252.7	1373.5	1500.3	1610.1	1688.8	1723.9	1696.3	1627.7
37.5°	929.9	998.4	1089.6	1193.4	1318.4	1447.4	1546.6	1603.3	1591.7	1523.1	1420.7
40°	889.8	953.9	1040.7	1152.9	1274.8	1404.1	1491.3	1521.9	1489.8	1391.6	1282.8
42.5°	845.3	907.9	994.9	1103.2	1232.3	1351.5	1427.6	1430.0	1376.3	1258.9	1149.6
45°	777.5	837.2	919.4	1032.2	1151.4	1263.8	1313.8	1289.3	1190.1	1076.8	967.0
47.5°	710.6	762.3	843.4	950.5	1063.8	1158.3	1183.1	1138.9	1033.1	923.1	821.4
50°	661.7	713.8	790.0	892.3	1001.5	1083.3	1095.3	1036.6	932.9	822.1	742.4
52.5°	614.7	666.5	739.9	834.5	934.6	1008.2	1008.7	940.8	837.4	738.7	664.6
55°	545.9	592.5	658.6	743.4	832.6	890.2	876.3	806.1	716.3	630.7	565.9
57.5°	479.6	520.1	581.1	651.8	730.4	777.9	754.6	687.0	606.9	534.2	485.2
60°	436.6	475.2	527.4	594.0	660.2	697.3	675.2	614.1	540.4	481.7	439.1
62.5°	394.9	427.5	477.6	535.5	596.8	624.3	604.6	544.3	480.6	427.6	393.0
65°	335.8	362.4	402.6	452.1	496.8	520.3	503.8	447.6	399.0	360.9	333.4
67.5°	280.7	301.4	331.9	371.6	409.5	422.3	407.3	368.2	327.0	296.4	277.0
70°	242.6	262.2	287.8	318.3	351.4	365.0	349.9	318.8	285.2	257.1	238.1
72.5°	209.3	224.5	246.0	272.2	298.0	311.6	301.3	271.5	243.1	222.3	206.0
75°	159.4	172.5	187.5	206.0	226.1	235.1	226.1	205.6	186.0	170.4	158.9
77.5°	115.9	122.9	134.5	148.4	160.9	167.9	160.0	146.1	134.1	123.5	117.8
80°	88.2	93.2	101.2	112.3	120.8	127.3	122.3	110.7	101.2	94.3	91.7
82.5°	64.2	67.6	72.8	81.0	86.7	90.0	87.8	79.5	75.6	69.4	66.8
85°	31.6	33.6	37.1	39.6	44.6	45.1	45.6	42.1	38.6	37.1	35.1
87.5°	11.1	11.9	13.2	14.5	16.1	17.2	16.8	17.0	15.6	15.1	13.6
90°	1.6	3.2	3.8	4.3	4.3	7.5	7.5	8.6	9.7	9.1	9.7
92.5°	9.0	13.9	20.5	28.4	39.6	66.9	108.6	149.3	170.5	142.0	105.6
95°	19.3	24.7	31.8	44.6	67.2	114.0	202.2	330.6	438.2	450.5	398.4
97.5°	31.9	36.5	42.9	54.0	73.0	109.0	181.7	309.5	461.6	566.1	588.6
100°	40.9	44.6	51.1	61.3	78.5	110.2	171.0	280.7	432.3	570.0	648.5
102.5°	50.3	53.6	59.7	69.5	85.8	114.5	168.0	261.3	395.8	537.6	645.5
105°	64.6	67.2	73.7	83.3	99.0	124.7	169.4	244.7	352.7	479.1	602.2
107.5°	78.8	81.5	88.4	97.6	113.0	136.7	177.3	241.7	328.7	431.8	540.8
110°	88.7	91.4	97.8	107.5	122.1	145.7	183.3	242.5	320.5	408.1	503.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	98.2	101.3	107.4	117.0	131.5	154.3	189.8	245.1	316.6	394.7	476.7
115°	112.4	116.1	121.5	131.8	146.3	167.8	200.0	250.1	314.5	382.3	449.5
117.5°	126.5	129.8	135.7	145.2	160.3	180.8	210.5	255.2	314.0	376.7	436.1
120°	135.5	139.2	145.2	154.3	169.4	189.8	217.7	259.2	314.0	373.7	430.2
122.5°	144.1	147.9	153.4	163.3	178.0	198.4	224.6	263.1	313.6	370.2	425.0
125°	156.5	159.7	165.6	175.8	190.9	210.2	235.0	268.8	312.9	364.6	416.1
127.5°	166.1	169.9	176.6	187.3	202.5	221.2	243.9	273.4	311.7	356.9	405.4
130°	172.0	176.3	184.5	194.6	210.2	228.5	249.5	276.9	311.3	352.1	396.8
132.5°	177.2	182.9	190.5	201.5	216.2	234.5	255.1	279.9	310.9	347.9	387.8
135°	185.5	190.9	200.0	211.3	225.3	243.0	262.4	284.5	310.2	341.4	375.3
137.5°	193.2	199.2	207.8	219.6	232.9	249.5	267.6	287.1	310.1	335.8	364.0
140°	198.4	204.3	213.5	224.7	237.6	253.8	271.0	289.3	309.7	332.8	357.5
142.5°	204.4	209.9	218.6	229.5	242.0	257.7	273.5	291.0	309.7	330.3	351.6
145°	212.9	218.3	225.8	236.0	247.9	261.8	276.4	292.0	308.6	325.8	343.0
147.5°	221.4	226.1	233.8	242.4	253.1	266.2	278.8	292.5	306.7	321.9	336.0
150°	227.4	231.8	238.2	246.3	256.5	268.3	280.1	292.5	305.4	318.9	331.8
152.5°	232.6	236.9	242.9	250.2	259.5	270.0	281.0	291.6	303.2	315.4	327.0
155°	240.9	244.1	249.5	255.4	263.4	272.6	281.7	290.3	300.0	310.2	319.9
157.5°	248.0	251.0	255.1	260.3	266.6	274.5	281.7	289.0	296.7	305.0	312.3
160°	252.7	254.9	258.6	262.9	268.8	275.3	281.7	287.7	294.1	301.1	307.6
162.5°	256.6	258.3	261.6	265.5	270.1	276.2	281.7	286.3	291.5	297.7	302.8
165°	261.8	262.9	265.6	268.3	271.5	276.4	280.7	283.9	287.7	292.0	296.2
167.5°	266.2	266.6	268.7	270.2	272.7	276.3	279.4	281.3	283.8	286.8	289.9
170°	268.3	268.8	270.4	271.5	273.1	275.8	278.5	279.6	281.2	283.3	286.1
172.5°	270.4	270.5	271.7	272.4	273.5	275.4	277.7	277.9	278.6	280.3	282.6
175°	272.6	272.6	273.1	273.7	273.7	274.8	276.4	275.8	275.8	276.9	278.0
177.5°	273.7	273.2	273.7	273.7	273.7	274.1	274.9	274.1	274.1	274.6	274.9
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1	1210.1
2.5°	1275.4	1276.3	1279.9	1282.7	1283.5	1287.5	1287.9
5°	1387.5	1396.1	1412.6	1414.1	1416.6	1429.6	1419.7
7.5°	1518.9	1540.5	1555.0	1567.7	1572.3	1578.0	1576.9
10°	1603.1	1635.2	1651.2	1676.8	1677.8	1684.3	1680.3
12.5°	1687.7	1725.0	1754.3	1759.0	1780.5	1783.8	1789.4
15°	1807.6	1847.2	1887.8	1902.3	1931.9	1939.0	1950.0
17.5°	1920.3	1960.8	1989.2	2026.8	2039.0	2055.2	2044.2
20°	1982.1	2026.2	2062.3	2091.9	2104.4	2113.4	2112.4
22.5°	2019.4	2063.9	2093.1	2115.5	2127.2	2131.1	2130.8
25°	2042.7	2068.3	2077.3	2085.8	2072.8	2068.3	2070.3
27.5°	1977.7	1971.1	1947.6	1916.7	1884.6	1859.2	1845.3
30°	1888.3	1849.3	1813.6	1751.4	1719.4	1700.3	1683.3
32.5°	1761.6	1699.7	1631.2	1574.2	1537.8	1509.5	1505.2
35°	1544.5	1451.2	1367.5	1297.8	1261.7	1231.1	1224.1
37.5°	1313.1	1216.2	1140.9	1079.5	1040.7	1019.1	998.9
40°	1159.4	1076.3	1002.0	949.9	920.4	904.8	892.3
42.5°	1041.1	965.2	891.4	851.7	824.9	815.4	808.0
45°	877.7	807.1	755.9	725.9	710.3	694.3	686.7
47.5°	746.9	689.4	655.6	630.1	613.5	604.0	599.2
50°	672.7	625.6	595.5	576.0	560.9	553.4	549.4
52.5°	606.9	568.3	543.0	527.4	517.3	511.7	510.1
55°	522.8	493.2	477.2	463.7	456.2	451.2	449.1
57.5°	454.5	431.7	418.7	407.6	404.6	400.4	399.0
60°	409.5	392.0	381.0	373.4	371.0	365.9	366.9
62.5°	369.9	355.5	346.1	341.8	338.5	334.2	335.6
65°	312.8	302.3	297.3	293.2	289.3	286.7	288.7
67.5°	262.5	255.2	248.5	246.1	244.1	243.7	241.6
70°	229.6	223.6	217.5	216.0	216.0	214.1	213.6
72.5°	197.9	193.5	189.5	188.4	186.8	187.6	185.5
75°	152.9	149.4	147.9	146.4	145.9	145.9	144.4
77.5°	113.0	110.4	108.0	108.0	106.1	105.5	105.3
80°	85.7	84.7	82.8	82.8	81.7	82.2	81.2
82.5°	64.5	63.1	62.7	61.8	60.4	60.5	59.6
85°	34.6	33.1	32.6	31.1	30.1	31.1	30.1
87.5°	14.0	13.8	13.4	12.7	12.3	12.3	11.1
90°	10.2	10.7	10.7	11.3	11.8	11.3	11.3
92.5°	79.5	63.2	52.5	46.1	43.3	41.4	41.4
95°	315.1	243.0	190.9	164.6	147.9	138.2	131.2
97.5°	557.7	505.1	448.9	410.4	378.0	361.8	350.6
100°	659.2	632.8	593.0	546.3	513.5	497.4	493.0
102.5°	698.8	706.4	689.8	661.1	637.3	620.4	616.9
105°	695.2	748.5	770.5	771.6	767.2	759.7	756.5
107.5°	639.8	714.8	762.7	789.3	801.5	806.9	808.3
110°	596.8	674.8	734.0	772.1	794.7	804.4	809.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	558.9	632.6	691.7	735.1	762.4	776.0	783.8
115°	515.7	578.5	630.2	672.6	704.9	722.1	726.4
117.5°	490.9	540.4	584.1	620.4	647.4	664.9	668.3
120°	480.1	523.1	561.3	592.0	615.7	629.6	635.6
122.5°	473.3	512.4	545.8	571.7	592.0	603.8	609.7
125°	462.4	499.5	529.0	550.5	566.2	576.4	579.6
127.5°	449.6	486.6	514.6	536.3	550.2	558.7	561.9
130°	439.3	475.8	504.4	526.4	539.8	548.5	551.7
132.5°	427.6	463.4	491.8	513.5	528.7	536.8	540.1
135°	410.3	443.0	470.0	491.4	506.5	515.1	518.3
137.5°	393.6	421.2	445.5	465.6	480.5	487.6	491.4
140°	382.9	407.0	429.6	448.5	460.2	467.8	472.1
142.5°	373.8	394.5	414.2	430.7	441.8	448.5	451.4
145°	361.3	377.5	392.5	406.0	415.1	420.5	423.1
147.5°	350.5	363.4	375.3	385.2	393.0	397.1	398.1
150°	344.1	354.9	364.6	373.2	380.1	383.3	383.9
152.5°	337.6	347.5	355.5	362.8	368.5	370.4	371.0
155°	328.5	336.6	343.0	348.5	352.7	354.3	354.3
157.5°	319.5	326.2	331.4	335.5	338.7	339.7	339.7
160°	313.5	319.3	323.7	326.9	330.2	330.6	330.6
162.5°	307.8	312.5	316.4	318.8	322.0	322.5	322.1
165°	299.4	303.2	305.9	308.1	310.2	309.7	309.2
167.5°	292.4	295.4	297.0	298.1	299.4	299.4	299.0
170°	287.7	289.8	291.4	292.5	293.0	292.5	292.5
172.5°	283.8	285.1	286.3	286.9	287.5	286.9	286.1
175°	278.5	279.6	279.6	279.6	280.7	279.6	278.5
177.5°	275.4	275.4	275.8	275.4	275.8	274.9	274.1
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7

(END OF REPORT)