

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: P332618-830

Luminaire Tested: **SA4XXDIP-C795D1205U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332618-830
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-C795D1205U830-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

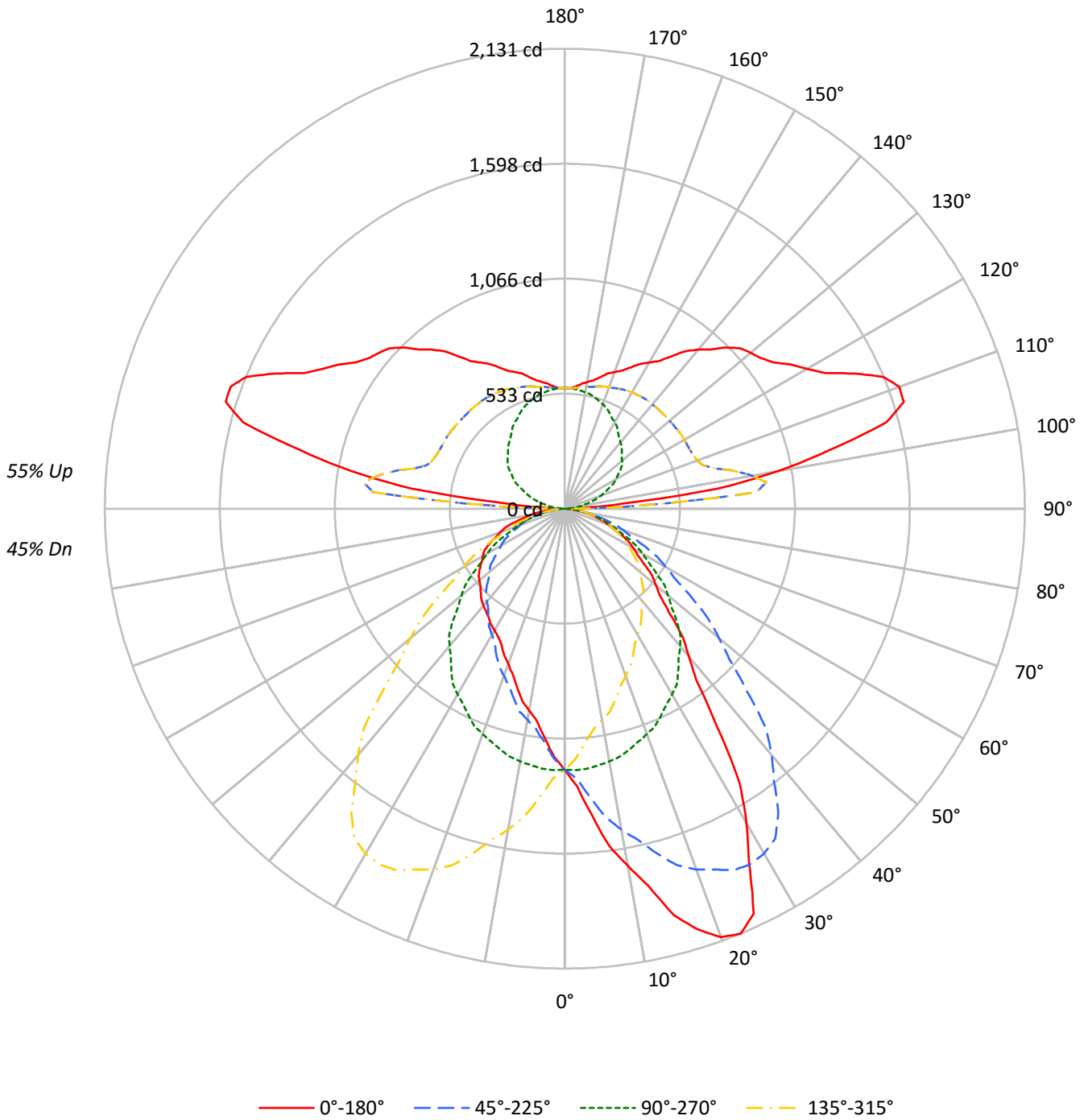
Lumens per Lamp: N/A
Luminaire Lumens: 7396.2 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45				
1	97	93	89	85	89	85	82	79	71	69	67	58	56	55	46	45	44	38				
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	41	39	37	33				
3	81	71	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	63	56	50	68	58	52	46	49	44	40	41	37	34	33	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	36	33	29	29	27	24	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	19				
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	16	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12				

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	1.6
10°-20°	363.4	4.9
20°-30°	576.2	7.8
30°-40°	641.2	8.7
40°-50°	583.7	7.9
50°-60°	477.0	6.4
60°-70°	340.5	4.6
70°-80°	187.5	2.5
80°-90°	54.3	0.7
90°-100°	402.7	5.4
100°-110°	838.0	11.3
110°-120°	750.6	10.1
120°-130°	631.4	8.5
130°-140°	526.5	7.1
140°-150°	402.2	5.4
150°-160°	282.7	3.8
160°-170°	166.3	2.2
170°-180°	54.1	0.7
0°-30°	1057.5	14.3
0°-40°	1698.7	23.0
0°-60°	2759.4	37.3
0°-90°	3341.8	45.2
90°-120°	1991.3	26.9
90°-150°	3551.4	48.0
90°-180°	4054.0	54.8
0°-180°	7396.2	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°	23	1	23	1	23	20
95°	267	36	267	36	267	415
105°	1541	128	1541	128	1541	1524
115°	1480	226	1480	226	1480	1469
125°	1181	314	1181	314	1181	1073
135°	1056	373	1056	373	1056	815
145°	862	430	862	430	862	546
155°	722	490	722	490	722	337
165°	630	533	630	533	630	180
175°	567	556	567	556	567	55
180°	558	558	558	558	558	



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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°	13.4	14.6	14.8	15.0	15.6	16.0	16.2	15.6	17.0	17.5	18.8
90°	23.0	23.0	24.1	23.0	21.9	21.9	20.8	19.7	18.7	19.7	17.5
92.5°	84.4	84.4	88.0	94.0	106.9	128.8	161.8	215.1	289.4	347.4	304.1
95°	267.2	281.4	301.2	335.2	388.8	495.0	641.8	811.5	917.8	892.6	673.5
97.5°	714.4	737.1	770.0	835.8	914.5	1028.9	1136.0	1199.1	1153.1	940.2	630.4
100°	1004.4	1013.1	1045.9	1112.8	1208.1	1289.1	1342.7	1320.9	1160.9	880.5	571.7
102.5°	1256.7	1263.7	1298.3	1346.7	1405.1	1438.9	1423.3	1314.8	1095.2	806.1	532.3
105°	1541.0	1547.6	1562.9	1571.7	1569.4	1524.6	1416.2	1226.6	975.8	718.5	498.3
107.5°	1646.6	1643.7	1632.8	1607.8	1553.7	1456.0	1303.3	1101.5	879.5	669.4	492.2
110°	1648.3	1638.5	1618.7	1572.7	1495.0	1374.5	1215.7	1026.2	831.3	652.8	494.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1596.7	1580.6	1553.0	1497.4	1409.1	1288.6	1138.6	971.0	804.1	644.9	499.2
115°	1479.7	1470.9	1435.9	1370.2	1283.6	1178.5	1050.4	915.6	778.7	640.7	509.3
117.5°	1361.1	1354.3	1318.9	1263.7	1189.9	1100.7	999.9	888.4	767.3	639.6	520.0
120°	1294.6	1282.5	1254.1	1205.9	1143.4	1065.6	978.1	876.2	761.2	639.6	527.9
122.5°	1242.0	1229.9	1205.9	1164.7	1111.9	1043.8	964.0	865.6	754.2	638.8	535.8
125°	1180.6	1174.1	1153.3	1121.5	1077.7	1017.5	941.9	847.7	742.5	637.4	547.6
127.5°	1144.7	1138.2	1120.7	1092.4	1048.4	991.2	915.9	825.8	727.0	635.0	557.0
130°	1123.7	1117.1	1099.6	1072.2	1027.4	969.3	894.8	808.3	717.4	634.1	564.0
132.5°	1100.0	1093.4	1076.9	1045.9	1001.9	943.9	871.2	789.9	708.6	633.3	570.1
135°	1055.8	1049.2	1031.7	1001.1	957.2	902.5	835.7	764.5	695.5	632.0	579.4
137.5°	1001.1	993.2	978.7	948.5	907.5	858.0	801.7	741.5	684.1	631.7	584.8
140°	961.6	952.8	937.5	913.4	875.1	829.1	779.8	728.3	678.0	630.8	589.3
142.5°	919.5	913.4	899.8	877.5	843.6	803.7	761.4	716.0	672.7	630.8	592.8
145°	862.0	856.5	845.6	826.9	799.6	768.8	736.0	698.8	663.7	628.7	594.7
147.5°	810.9	809.0	800.6	784.7	764.5	740.4	714.1	684.6	655.6	624.7	595.8
150°	782.0	780.9	774.3	760.1	742.5	722.8	701.0	675.8	649.5	622.1	595.8
152.5°	755.7	754.6	750.6	739.0	724.2	707.9	687.8	666.1	642.4	617.7	594.1
155°	721.8	721.8	718.5	709.7	698.8	685.6	669.2	651.7	632.0	611.1	591.4
157.5°	692.0	692.0	690.0	683.4	675.1	664.6	650.8	636.1	621.2	604.4	588.6
160°	673.5	673.5	672.5	665.9	659.3	650.5	638.5	626.5	613.3	599.1	586.0
162.5°	656.0	657.0	655.8	649.2	644.4	636.6	627.2	616.8	606.3	593.8	583.3
165°	629.8	630.8	632.0	627.5	623.2	617.7	610.0	603.5	594.7	586.0	578.2
167.5°	609.0	609.8	610.0	607.2	605.0	601.7	595.6	590.6	584.2	578.1	573.1
170°	595.8	595.8	596.9	595.8	593.6	590.3	586.0	582.7	577.2	572.8	569.5
172.5°	582.7	584.4	585.5	584.4	583.1	580.7	578.1	575.6	571.1	567.5	566.0
175°	567.3	569.5	571.7	569.5	569.5	569.5	567.3	566.3	564.0	561.8	561.8
177.5°	558.4	560.1	561.8	561.0	561.8	561.0	561.0	560.1	559.2	558.4	558.4
180°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5



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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°	18.3	18.7	17.0	15.4	13.9	12.5	11.5	10.7	11.5	12.5	13.2
90°	15.4	15.4	8.8	8.8	7.6	6.6	3.3	1.1	3.3	6.6	7.6
92.5°	221.2	136.3	80.6	57.9	41.8	28.5	18.2	12.4	18.2	28.5	41.8
95°	411.8	232.1	137.0	90.9	64.7	50.4	39.4	36.1	39.4	50.4	64.7
97.5°	370.2	221.9	148.5	110.0	87.4	74.3	64.8	64.8	64.8	74.3	87.4
100°	348.3	224.5	159.9	124.9	104.1	90.9	83.2	83.2	83.2	90.9	104.1
102.5°	342.1	233.3	174.8	141.5	121.6	109.3	102.5	100.8	102.5	109.3	121.6
105°	345.0	254.1	201.5	169.8	150.1	137.0	131.4	128.2	131.4	137.0	150.1
107.5°	361.2	278.4	230.3	198.9	180.0	166.1	160.5	158.3	160.5	166.1	180.0
110°	373.4	296.8	248.6	219.0	199.3	186.2	180.7	178.5	180.7	186.2	199.3



TEST NUMBER: P332618-830

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	386.6	314.3	267.9	238.4	218.6	206.3	200.0	197.8	200.0	206.3	218.6
115°	407.5	341.7	297.9	268.3	247.5	236.6	228.9	225.6	228.9	236.6	247.5
117.5°	428.7	368.3	326.6	296.0	276.4	264.4	257.6	254.5	257.6	264.4	276.4
120°	443.6	386.6	345.0	314.3	295.7	283.7	276.0	273.8	276.0	283.7	295.7
122.5°	457.6	404.2	362.5	332.7	312.4	301.2	293.5	291.3	293.5	301.2	312.4
125°	478.6	428.2	388.8	358.2	337.3	325.3	318.7	314.3	318.7	325.3	337.3
127.5°	496.8	450.5	412.5	381.5	359.9	346.1	338.2	334.7	338.2	346.1	359.9
130°	508.2	465.5	428.2	396.4	375.7	359.2	350.4	346.1	350.4	359.2	375.7
132.5°	519.6	477.8	440.5	410.5	388.0	372.4	361.0	357.5	361.0	372.4	388.0
135°	534.5	495.0	458.9	430.5	407.5	388.8	377.9	373.4	377.9	388.8	407.5
137.5°	545.0	508.2	474.5	447.3	423.4	405.7	393.6	389.5	393.6	405.7	423.4
140°	552.0	517.0	484.1	457.8	434.8	416.2	404.2	400.9	404.2	416.2	434.8
142.5°	557.2	524.8	492.9	467.4	445.4	427.5	416.4	413.1	416.4	427.5	445.4
145°	563.0	533.4	504.9	480.8	460.0	444.7	433.8	430.5	433.8	444.7	460.0
147.5°	568.0	542.2	515.4	493.7	476.5	460.6	451.0	449.9	451.0	460.6	476.5
150°	570.6	546.5	522.5	501.6	485.2	472.0	463.3	462.2	463.3	472.0	485.2
152.5°	572.4	550.1	528.6	509.5	494.8	482.6	473.8	473.5	473.8	482.6	494.8
155°	573.9	555.3	536.7	520.3	508.2	497.2	490.7	489.6	490.7	497.2	508.2
157.5°	573.9	559.0	543.3	530.3	519.8	511.2	505.1	505.1	505.1	511.2	519.8
160°	573.9	560.7	547.6	535.6	526.8	519.2	514.7	514.7	514.7	519.2	526.8
162.5°	573.9	562.5	550.3	540.8	532.9	526.1	522.6	523.5	522.6	526.1	532.9
165°	571.7	563.0	553.1	546.5	541.0	535.6	533.4	533.4	533.4	535.6	541.0
167.5°	569.1	562.7	555.5	550.4	547.4	543.3	542.2	543.3	542.2	543.3	547.4
170°	567.3	561.8	556.4	553.1	550.9	547.6	546.5	547.6	546.5	547.6	550.9
172.5°	565.6	561.0	557.2	554.9	553.6	551.1	550.9	552.0	550.9	551.1	553.6
175°	563.0	559.7	557.5	557.5	556.4	555.3	555.3	556.4	555.3	555.3	556.4
177.5°	560.1	558.4	557.5	557.5	557.5	556.6	557.5	558.4	557.5	556.6	557.5
180°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5



TEST NUMBER: P332618-830

CATALOG NUMBER: SA4XXDIP-C795D1205U830-4F0-1E-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°	14.6	14.6	17.5	18.3	20.0	22.4	23.0	27.6	29.4	31.7	35.3
90°	8.8	8.8	15.4	15.4	17.5	19.7	18.7	19.7	20.8	21.9	21.9
92.5°	57.9	80.6	136.3	221.2	304.1	347.4	289.4	215.1	161.8	128.8	106.9
95°	90.9	137.0	232.1	411.8	673.5	892.6	917.8	811.5	641.8	495.0	388.8
97.5°	110.0	148.5	221.9	370.2	630.4	940.2	1153.1	1199.1	1136.0	1028.9	914.5
100°	124.9	159.9	224.5	348.3	571.7	880.5	1160.9	1320.9	1342.7	1289.1	1208.1
102.5°	141.5	174.8	233.3	342.1	532.3	806.1	1095.2	1314.8	1423.3	1438.9	1405.1
105°	169.8	201.5	254.1	345.0	498.3	718.5	975.8	1226.6	1416.2	1524.6	1569.4
107.5°	198.9	230.3	278.4	361.2	492.2	669.4	879.5	1101.5	1303.3	1456.0	1553.7
110°	219.0	248.6	296.8	373.4	494.0	652.8	831.3	1026.2	1215.7	1374.5	1495.0



TEST NUMBER: P332618-830

CATALOG NUMBER: SA4XXDIP-C795D1205U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	238.4	267.9	314.3	386.6	499.2	644.9	804.1	971.0	1138.6	1288.6	1409.1
115°	268.3	297.9	341.7	407.5	509.3	640.7	778.7	915.6	1050.4	1178.5	1283.6
117.5°	296.0	326.6	368.3	428.7	520.0	639.6	767.3	888.4	999.9	1100.7	1189.9
120°	314.3	345.0	386.6	443.6	527.9	639.6	761.2	876.2	978.1	1065.6	1143.4
122.5°	332.7	362.5	404.2	457.6	535.8	638.8	754.2	865.6	964.0	1043.8	1111.9
125°	358.2	388.8	428.2	478.6	547.6	637.4	742.5	847.7	941.9	1017.5	1077.7
127.5°	381.5	412.5	450.5	496.8	557.0	635.0	727.0	825.8	915.9	991.2	1048.4
130°	396.4	428.2	465.5	508.2	564.0	634.1	717.4	808.3	894.8	969.3	1027.4
132.5°	410.5	440.5	477.8	519.6	570.1	633.3	708.6	789.9	871.2	943.9	1001.9
135°	430.5	458.9	495.0	534.5	579.4	632.0	695.5	764.5	835.7	902.5	957.2
137.5°	447.3	474.5	508.2	545.0	584.8	631.7	684.1	741.5	801.7	858.0	907.5
140°	457.8	484.1	517.0	552.0	589.3	630.8	678.0	728.3	779.8	829.1	875.1
142.5°	467.4	492.9	524.8	557.2	592.8	630.8	672.7	716.0	761.4	803.7	843.6
145°	480.8	504.9	533.4	563.0	594.7	628.7	663.7	698.8	736.0	768.8	799.6
147.5°	493.7	515.4	542.2	568.0	595.8	624.7	655.6	684.6	714.1	740.4	764.5
150°	501.6	522.5	546.5	570.6	595.8	622.1	649.5	675.8	701.0	722.8	742.5
152.5°	509.5	528.6	550.1	572.4	594.1	617.7	642.4	666.1	687.8	707.9	724.2
155°	520.3	536.7	555.3	573.9	591.4	611.1	632.0	651.7	669.2	685.6	698.8
157.5°	530.3	543.3	559.0	573.9	588.6	604.4	621.2	636.1	650.8	664.6	675.1
160°	535.6	547.6	560.7	573.9	586.0	599.1	613.3	626.5	638.5	650.5	659.3
162.5°	540.8	550.3	562.5	573.9	583.3	593.8	606.3	616.8	627.2	636.6	644.4
165°	546.5	553.1	563.0	571.7	578.2	586.0	594.7	603.5	610.0	617.7	623.2
167.5°	550.4	555.5	562.7	569.1	573.1	578.1	584.2	590.6	595.6	601.7	605.0
170°	553.1	556.4	561.8	567.3	569.5	572.8	577.2	582.7	586.0	590.3	593.6
172.5°	554.9	557.2	561.0	565.6	566.0	567.5	571.1	575.6	578.1	580.7	583.1
175°	557.5	557.5	559.7	563.0	561.8	561.8	564.0	566.3	567.3	569.5	569.5
177.5°	557.5	557.5	558.4	560.1	558.4	558.4	559.2	560.1	561.0	561.0	561.8
180°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5



TEST NUMBER: P332618-830

CATALOG NUMBER: SA4XXDIP-C795D1205U830-4F0-1E-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°	36.7	37.3	38.3	39.1	38.3	37.3	36.7	35.3	31.7	29.4	27.6
90°	23.0	24.1	23.0	23.0	23.0	24.1	23.0	21.9	21.9	20.8	19.7
92.5°	94.0	88.0	84.4	84.4	84.4	88.0	94.0	106.9	128.8	161.8	215.1
95°	335.2	301.2	281.4	267.2	281.4	301.2	335.2	388.8	495.0	641.8	811.5
97.5°	835.8	770.0	737.1	714.4	737.1	770.0	835.8	914.5	1028.9	1136.0	1199.1
100°	1112.8	1045.9	1013.1	1004.4	1013.1	1045.9	1112.8	1208.1	1289.1	1342.7	1320.9
102.5°	1346.7	1298.3	1263.7	1256.7	1263.7	1298.3	1346.7	1405.1	1438.9	1423.3	1314.8
105°	1571.7	1562.9	1547.6	1541.0	1547.6	1562.9	1571.7	1569.4	1524.6	1416.2	1226.6
107.5°	1607.8	1632.8	1643.7	1646.6	1643.7	1632.8	1607.8	1553.7	1456.0	1303.3	1101.5
110°	1572.7	1618.7	1638.5	1648.3	1638.5	1618.7	1572.7	1495.0	1374.5	1215.7	1026.2



TEST NUMBER: P332618-830

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1497.4	1553.0	1580.6	1596.7	1580.6	1553.0	1497.4	1409.1	1288.6	1138.6	971.0
115°	1370.2	1435.9	1470.9	1479.7	1470.9	1435.9	1370.2	1283.6	1178.5	1050.4	915.6
117.5°	1263.7	1318.9	1354.3	1361.1	1354.3	1318.9	1263.7	1189.9	1100.7	999.9	888.4
120°	1205.9	1254.1	1282.5	1294.6	1282.5	1254.1	1205.9	1143.4	1065.6	978.1	876.2
122.5°	1164.7	1205.9	1229.9	1242.0	1229.9	1205.9	1164.7	1111.9	1043.8	964.0	865.6
125°	1121.5	1153.3	1174.1	1180.6	1174.1	1153.3	1121.5	1077.7	1017.5	941.9	847.7
127.5°	1092.4	1120.7	1138.2	1144.7	1138.2	1120.7	1092.4	1048.4	991.2	915.9	825.8
130°	1072.2	1099.6	1117.1	1123.7	1117.1	1099.6	1072.2	1027.4	969.3	894.8	808.3
132.5°	1045.9	1076.9	1093.4	1100.0	1093.4	1076.9	1045.9	1001.9	943.9	871.2	789.9
135°	1001.1	1031.7	1049.2	1055.8	1049.2	1031.7	1001.1	957.2	902.5	835.7	764.5
137.5°	948.5	978.7	993.2	1001.1	993.2	978.7	948.5	907.5	858.0	801.7	741.5
140°	913.4	937.5	952.8	961.6	952.8	937.5	913.4	875.1	829.1	779.8	728.3
142.5°	877.5	899.8	913.4	919.5	913.4	899.8	877.5	843.6	803.7	761.4	716.0
145°	826.9	845.6	856.5	862.0	856.5	845.6	826.9	799.6	768.8	736.0	698.8
147.5°	784.7	800.6	809.0	810.9	809.0	800.6	784.7	764.5	740.4	714.1	684.6
150°	760.1	774.3	780.9	782.0	780.9	774.3	760.1	742.5	722.8	701.0	675.8
152.5°	739.0	750.6	754.6	755.7	754.6	750.6	739.0	724.2	707.9	687.8	666.1
155°	709.7	718.5	721.8	721.8	721.8	718.5	709.7	698.8	685.6	669.2	651.7
157.5°	683.4	690.0	692.0	692.0	692.0	690.0	683.4	675.1	664.6	650.8	636.1
160°	665.9	672.5	673.5	673.5	673.5	672.5	665.9	659.3	650.5	638.5	626.5
162.5°	649.2	655.8	657.0	656.0	657.0	655.8	649.2	644.4	636.6	627.2	616.8
165°	627.5	632.0	630.8	629.8	630.8	632.0	627.5	623.2	617.7	610.0	603.5
167.5°	607.2	610.0	609.8	609.0	609.8	610.0	607.2	605.0	601.7	595.6	590.6
170°	595.8	596.9	595.8	595.8	595.8	596.9	595.8	593.6	590.3	586.0	582.7
172.5°	584.4	585.5	584.4	582.7	584.4	585.5	584.4	583.1	580.7	578.1	575.6
175°	569.5	571.7	569.5	567.3	569.5	571.7	569.5	569.5	569.5	567.3	566.3
177.5°	561.0	561.8	560.1	558.4	560.1	561.8	561.0	561.8	561.0	561.0	560.1
180°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5



TEST NUMBER: P332618-830

CATALOG NUMBER: SA4XXDIP-C795D1205U830-4F0-1E-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°	23.0	22.4	20.0	18.3	17.5	14.6	14.6	13.2	12.5	11.5	10.7
90°	18.7	19.7	17.5	15.4	15.4	8.8	8.8	7.6	6.6	3.3	1.1
92.5°	289.4	347.4	304.1	221.2	136.3	80.6	57.9	41.8	28.5	18.2	12.4
95°	917.8	892.6	673.5	411.8	232.1	137.0	90.9	64.7	50.4	39.4	36.1
97.5°	1153.1	940.2	630.4	370.2	221.9	148.5	110.0	87.4	74.3	64.8	64.8
100°	1160.9	880.5	571.7	348.3	224.5	159.9	124.9	104.1	90.9	83.2	83.2
102.5°	1095.2	806.1	532.3	342.1	233.3	174.8	141.5	121.6	109.3	102.5	100.8
105°	975.8	718.5	498.3	345.0	254.1	201.5	169.8	150.1	137.0	131.4	128.2
107.5°	879.5	669.4	492.2	361.2	278.4	230.3	198.9	180.0	166.1	160.5	158.3
110°	831.3	652.8	494.0	373.4	296.8	248.6	219.0	199.3	186.2	180.7	178.5



TEST NUMBER: P332618-830

CATALOG NUMBER: SA4XXDIP-C795D1205U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	804.1	644.9	499.2	386.6	314.3	267.9	238.4	218.6	206.3	200.0	197.8
115°	778.7	640.7	509.3	407.5	341.7	297.9	268.3	247.5	236.6	228.9	225.6
117.5°	767.3	639.6	520.0	428.7	368.3	326.6	296.0	276.4	264.4	257.6	254.5
120°	761.2	639.6	527.9	443.6	386.6	345.0	314.3	295.7	283.7	276.0	273.8
122.5°	754.2	638.8	535.8	457.6	404.2	362.5	332.7	312.4	301.2	293.5	291.3
125°	742.5	637.4	547.6	478.6	428.2	388.8	358.2	337.3	325.3	318.7	314.3
127.5°	727.0	635.0	557.0	496.8	450.5	412.5	381.5	359.9	346.1	338.2	334.7
130°	717.4	634.1	564.0	508.2	465.5	428.2	396.4	375.7	359.2	350.4	346.1
132.5°	708.6	633.3	570.1	519.6	477.8	440.5	410.5	388.0	372.4	361.0	357.5
135°	695.5	632.0	579.4	534.5	495.0	458.9	430.5	407.5	388.8	377.9	373.4
137.5°	684.1	631.7	584.8	545.0	508.2	474.5	447.3	423.4	405.7	393.6	389.5
140°	678.0	630.8	589.3	552.0	517.0	484.1	457.8	434.8	416.2	404.2	400.9
142.5°	672.7	630.8	592.8	557.2	524.8	492.9	467.4	445.4	427.5	416.4	413.1
145°	663.7	628.7	594.7	563.0	533.4	504.9	480.8	460.0	444.7	433.8	430.5
147.5°	655.6	624.7	595.8	568.0	542.2	515.4	493.7	476.5	460.6	451.0	449.9
150°	649.5	622.1	595.8	570.6	546.5	522.5	501.6	485.2	472.0	463.3	462.2
152.5°	642.4	617.7	594.1	572.4	550.1	528.6	509.5	494.8	482.6	473.8	473.5
155°	632.0	611.1	591.4	573.9	555.3	536.7	520.3	508.2	497.2	490.7	489.6
157.5°	621.2	604.4	588.6	573.9	559.0	543.3	530.3	519.8	511.2	505.1	505.1
160°	613.3	599.1	586.0	573.9	560.7	547.6	535.6	526.8	519.2	514.7	514.7
162.5°	606.3	593.8	583.3	573.9	562.5	550.3	540.8	532.9	526.1	522.6	523.5
165°	594.7	586.0	578.2	571.7	563.0	553.1	546.5	541.0	535.6	533.4	533.4
167.5°	584.2	578.1	573.1	569.1	562.7	555.5	550.4	547.4	543.3	542.2	543.3
170°	577.2	572.8	569.5	567.3	561.8	556.4	553.1	550.9	547.6	546.5	547.6
172.5°	571.1	567.5	566.0	565.6	561.0	557.2	554.9	553.6	551.1	550.9	552.0
175°	564.0	561.8	561.8	563.0	559.7	557.5	557.5	556.4	555.3	555.3	556.4
177.5°	559.2	558.4	558.4	560.1	558.4	557.5	557.5	557.5	556.6	557.5	558.4
180°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5



TEST NUMBER: P332618-830
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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°	11.5	12.5	13.9	15.4	17.0	18.7	18.3	18.8	17.5	17.0	15.6
90°	3.3	6.6	7.6	8.8	8.8	15.4	15.4	17.5	19.7	18.7	19.7
92.5°	18.2	28.5	41.8	57.9	80.6	136.3	221.2	304.1	347.4	289.4	215.1
95°	39.4	50.4	64.7	90.9	137.0	232.1	411.8	673.5	892.6	917.8	811.5
97.5°	64.8	74.3	87.4	110.0	148.5	221.9	370.2	630.4	940.2	1153.1	1199.1
100°	83.2	90.9	104.1	124.9	159.9	224.5	348.3	571.7	880.5	1160.9	1320.9
102.5°	102.5	109.3	121.6	141.5	174.8	233.3	342.1	532.3	806.1	1095.2	1314.8
105°	131.4	137.0	150.1	169.8	201.5	254.1	345.0	498.3	718.5	975.8	1226.6
107.5°	160.5	166.1	180.0	198.9	230.3	278.4	361.2	492.2	669.4	879.5	1101.5
110°	180.7	186.2	199.3	219.0	248.6	296.8	373.4	494.0	652.8	831.3	1026.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	200.0	206.3	218.6	238.4	267.9	314.3	386.6	499.2	644.9	804.1	971.0
115°	228.9	236.6	247.5	268.3	297.9	341.7	407.5	509.3	640.7	778.7	915.6
117.5°	257.6	264.4	276.4	296.0	326.6	368.3	428.7	520.0	639.6	767.3	888.4
120°	276.0	283.7	295.7	314.3	345.0	386.6	443.6	527.9	639.6	761.2	876.2
122.5°	293.5	301.2	312.4	332.7	362.5	404.2	457.6	535.8	638.8	754.2	865.6
125°	318.7	325.3	337.3	358.2	388.8	428.2	478.6	547.6	637.4	742.5	847.7
127.5°	338.2	346.1	359.9	381.5	412.5	450.5	496.8	557.0	635.0	727.0	825.8
130°	350.4	359.2	375.7	396.4	428.2	465.5	508.2	564.0	634.1	717.4	808.3
132.5°	361.0	372.4	388.0	410.5	440.5	477.8	519.6	570.1	633.3	708.6	789.9
135°	377.9	388.8	407.5	430.5	458.9	495.0	534.5	579.4	632.0	695.5	764.5
137.5°	393.6	405.7	423.4	447.3	474.5	508.2	545.0	584.8	631.7	684.1	741.5
140°	404.2	416.2	434.8	457.8	484.1	517.0	552.0	589.3	630.8	678.0	728.3
142.5°	416.4	427.5	445.4	467.4	492.9	524.8	557.2	592.8	630.8	672.7	716.0
145°	433.8	444.7	460.0	480.8	504.9	533.4	563.0	594.7	628.7	663.7	698.8
147.5°	451.0	460.6	476.5	493.7	515.4	542.2	568.0	595.8	624.7	655.6	684.6
150°	463.3	472.0	485.2	501.6	522.5	546.5	570.6	595.8	622.1	649.5	675.8
152.5°	473.8	482.6	494.8	509.5	528.6	550.1	572.4	594.1	617.7	642.4	666.1
155°	490.7	497.2	508.2	520.3	536.7	555.3	573.9	591.4	611.1	632.0	651.7
157.5°	505.1	511.2	519.8	530.3	543.3	559.0	573.9	588.6	604.4	621.2	636.1
160°	514.7	519.2	526.8	535.6	547.6	560.7	573.9	586.0	599.1	613.3	626.5
162.5°	522.6	526.1	532.9	540.8	550.3	562.5	573.9	583.3	593.8	606.3	616.8
165°	533.4	535.6	541.0	546.5	553.1	563.0	571.7	578.2	586.0	594.7	603.5
167.5°	542.2	543.3	547.4	550.4	555.5	562.7	569.1	573.1	578.1	584.2	590.6
170°	546.5	547.6	550.9	553.1	556.4	561.8	567.3	569.5	572.8	577.2	582.7
172.5°	550.9	551.1	553.6	554.9	557.2	561.0	565.6	566.0	567.5	571.1	575.6
175°	555.3	555.3	556.4	557.5	557.5	559.7	563.0	561.8	561.8	564.0	566.3
177.5°	557.5	556.6	557.5	557.5	557.5	558.4	560.1	558.4	558.4	559.2	560.1
180°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5



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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°	16.2	16.0	15.6	15.0	14.8	14.6	13.4
90°	20.8	21.9	21.9	23.0	24.1	23.0	23.0
92.5°	161.8	128.8	106.9	94.0	88.0	84.4	84.4
95°	641.8	495.0	388.8	335.2	301.2	281.4	267.2
97.5°	1136.0	1028.9	914.5	835.8	770.0	737.1	714.4
100°	1342.7	1289.1	1208.1	1112.8	1045.9	1013.1	1004.4
102.5°	1423.3	1438.9	1405.1	1346.7	1298.3	1263.7	1256.7
105°	1416.2	1524.6	1569.4	1571.7	1562.9	1547.6	1541.0
107.5°	1303.3	1456.0	1553.7	1607.8	1632.8	1643.7	1646.6
110°	1215.7	1374.5	1495.0	1572.7	1618.7	1638.5	1648.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1138.6	1288.6	1409.1	1497.4	1553.0	1580.6	1596.7
115°	1050.4	1178.5	1283.6	1370.2	1435.9	1470.9	1479.7
117.5°	999.9	1100.7	1189.9	1263.7	1318.9	1354.3	1361.1
120°	978.1	1065.6	1143.4	1205.9	1254.1	1282.5	1294.6
122.5°	964.0	1043.8	1111.9	1164.7	1205.9	1229.9	1242.0
125°	941.9	1017.5	1077.7	1121.5	1153.3	1174.1	1180.6
127.5°	915.9	991.2	1048.4	1092.4	1120.7	1138.2	1144.7
130°	894.8	969.3	1027.4	1072.2	1099.6	1117.1	1123.7
132.5°	871.2	943.9	1001.9	1045.9	1076.9	1093.4	1100.0
135°	835.7	902.5	957.2	1001.1	1031.7	1049.2	1055.8
137.5°	801.7	858.0	907.5	948.5	978.7	993.2	1001.1
140°	779.8	829.1	875.1	913.4	937.5	952.8	961.6
142.5°	761.4	803.7	843.6	877.5	899.8	913.4	919.5
145°	736.0	768.8	799.6	826.9	845.6	856.5	862.0
147.5°	714.1	740.4	764.5	784.7	800.6	809.0	810.9
150°	701.0	722.8	742.5	760.1	774.3	780.9	782.0
152.5°	687.8	707.9	724.2	739.0	750.6	754.6	755.7
155°	669.2	685.6	698.8	709.7	718.5	721.8	721.8
157.5°	650.8	664.6	675.1	683.4	690.0	692.0	692.0
160°	638.5	650.5	659.3	665.9	672.5	673.5	673.5
162.5°	627.2	636.6	644.4	649.2	655.8	657.0	656.0
165°	610.0	617.7	623.2	627.5	632.0	630.8	629.8
167.5°	595.6	601.7	605.0	607.2	610.0	609.8	609.0
170°	586.0	590.3	593.6	595.8	596.9	595.8	595.8
172.5°	578.1	580.7	583.1	584.4	585.5	584.4	582.7
175°	567.3	569.5	569.5	569.5	571.7	569.5	567.3
177.5°	561.0	561.0	561.8	561.0	561.8	560.1	558.4
180°	557.5	557.5	557.5	557.5	557.5	557.5	557.5

(END OF REPORT)