

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: P332993-935

Luminaire Tested: **SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332993-935
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-C1195D590U935-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 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: 6132.5 lumens
Efficiency: N/A
Efficacy: 111.3 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

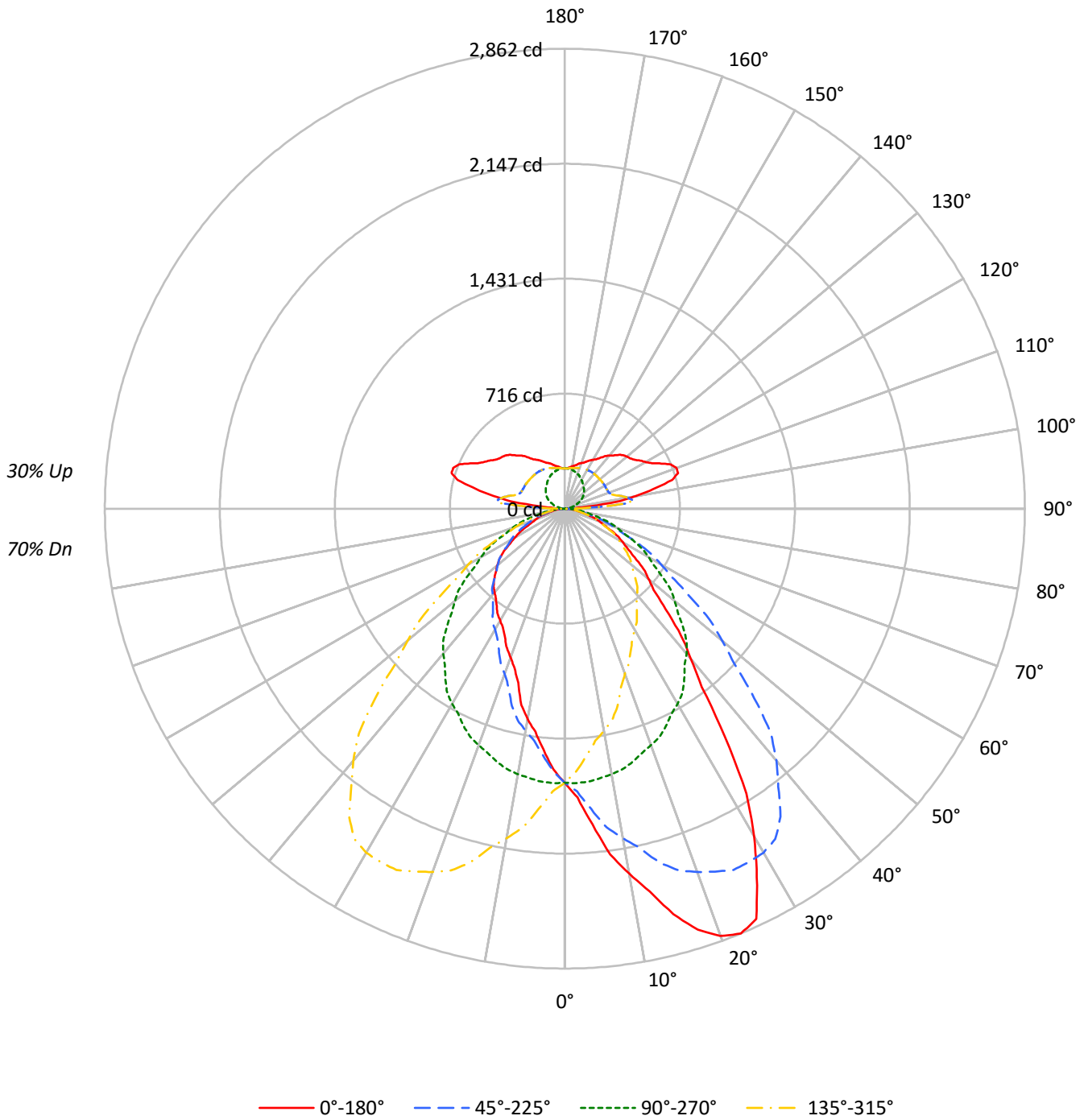
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	70				
1	103	99	95	92	97	94	90	87	84	82	79	75	73	72	67	66	65	61				
2	94	87	81	76	89	83	77	73	74	70	67	67	64	61	60	58	55	52				
3	86	77	70	64	82	73	67	62	66	61	57	60	56	52	54	50	48	45				
4	79	69	61	55	75	65	58	53	59	54	49	54	49	45	48	45	42	39				
5	73	62	54	48	69	59	51	46	53	47	43	48	44	40	44	40	37	34				
6	68	56	47	42	64	53	46	40	48	42	38	44	39	35	40	36	33	30				
7	63	50	42	37	59	48	41	36	44	38	33	40	35	31	37	32	29	27				
8	58	46	38	33	55	44	37	32	40	34	30	37	32	28	34	29	26	24				
9	55	42	35	30	52	40	33	29	37	31	27	34	29	25	31	27	24	22				
10	51	39	32	27	48	37	31	26	34	29	25	32	27	23	29	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13774	13774	13774	13774
5°	15977	13816	12211	13816
10°	18901	13755	10899	13755
15°	21833	13628	9365	13628
20°	24308	13454	8469	13454
25°	25093	13281	7863	13281
30°	21967	13073	7498	13073
35°	17100	12764	7276	12764
40°	12823	12410	7158	12410
45°	10123	11843	7096	11843
50°	8547	11189	6889	11189
55°	7450	10469	6521	10469
60°	6704	9723	5772	9723
65°	5910	8915	4963	8915
70°	5323	8080	4480	8080
75°	4460	7162	3815	7162
80°	3770	6104	3580	6104
85°	3186	4780	3186	4780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	2.7
10°-20°	498.7	8.1
20°-30°	780.0	12.7
30°-40°	867.1	14.1
40°-50°	769.3	12.5
50°-60°	599.5	9.8
60°-70°	392.5	6.4
70°-80°	193.0	3.1
80°-90°	49.0	0.8
90°-100°	180.6	2.9
100°-110°	375.8	6.1
110°-120°	336.6	5.5
120°-130°	283.1	4.6
130°-140°	236.1	3.8
140°-150°	180.4	2.9
150°-160°	126.8	2.1
160°-170°	74.6	1.2
170°-180°	24.3	0.4
0°-30°	1444.0	23.5
0°-40°	2311.0	37.7
0°-60°	3679.8	60.0
0°-90°	4314.3	70.4
90°-120°	893.0	14.6
90°-150°	1592.6	26.0
90°-180°	1818.0	29.6
0°-180°	6132.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1706	1706	1706	1706	1706	
5°	1972	1705	1507	1705	1972	199
15°	2612	1631	1120	1631	2612	743
25°	2817	1491	883	1491	2817	1250
35°	1735	1295	738	1295	1735	1088
45°	887	1037	622	1037	887	702
55°	529	744	463	744	529	481
65°	309	467	260	467	309	311
75°	143	230	122	230	143	157
85°	34	52	34	52	34	39
90°	10	0	10	0	10	10
95°	120	16	120	16	120	186
105°	691	57	691	57	691	683
115°	664	101	664	101	664	659
125°	529	141	529	141	529	481
135°	474	168	474	168	474	365
145°	386	193	386	193	386	245
155°	324	220	324	220	324	151
165°	282	239	282	239	282	81
175°	254	250	254	250	254	25
180°	250	250	250	250	250	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1799.7	1804.7	1799.7	1799.1	1793.6	1792.0	1789.8	1782.6	1769.4	1761.8	1763.4
5°	1971.5	1988.7	1979.1	1977.7	1962.6	1947.5	1937.9	1915.9	1892.5	1876.7	1863.6
7.5°	2170.3	2180.2	2174.2	2164.6	2140.1	2126.2	2103.9	2074.9	2033.0	2001.0	1971.7
10°	2305.7	2313.9	2311.2	2293.3	2275.4	2238.9	2218.4	2177.8	2124.9	2082.9	2043.8
12.5°	2438.7	2447.6	2423.4	2424.1	2390.3	2361.6	2328.9	2277.9	2216.7	2162.7	2113.6
15°	2612.3	2601.3	2601.3	2587.5	2549.7	2509.8	2476.1	2422.5	2345.5	2280.9	2212.9
17.5°	2748.1	2751.9	2746.2	2713.9	2684.2	2642.9	2581.2	2518.6	2447.1	2360.3	2290.8
20°	2829.5	2829.5	2823.3	2801.3	2762.8	2718.8	2652.1	2584.0	2493.3	2406.0	2327.6
22.5°	2862.5	2864.6	2857.4	2839.2	2804.6	2761.7	2704.9	2635.8	2542.3	2443.9	2346.9
25°	2817.1	2830.2	2831.5	2826.7	2816.4	2790.2	2741.5	2670.6	2586.8	2480.3	2375.8
27.5°	2586.4	2602.9	2617.4	2641.1	2672.7	2689.2	2691.4	2655.4	2582.2	2479.7	2374.6
30°	2356.5	2370.2	2414.9	2473.4	2518.8	2560.0	2595.7	2605.4	2564.1	2472.0	2361.3
32.5°	2101.4	2120.0	2164.7	2227.6	2303.2	2373.0	2453.3	2494.2	2493.2	2437.9	2335.5
35°	1735.1	1748.9	1790.1	1856.1	1946.8	2050.6	2177.8	2276.7	2344.2	2339.3	2276.7
37.5°	1399.3	1414.9	1456.6	1511.2	1599.2	1727.8	1850.8	1987.2	2111.8	2181.8	2160.9
40°	1216.8	1217.5	1258.0	1314.4	1396.9	1508.9	1643.0	1794.2	1933.0	2046.5	2068.5
42.5°	1072.6	1072.8	1099.6	1160.4	1219.8	1325.3	1453.2	1603.4	1765.9	1896.9	1955.2
45°	886.7	892.9	915.0	951.4	998.2	1087.5	1189.9	1329.5	1511.7	1667.0	1763.9
47.5°	751.0	760.0	774.0	803.7	841.0	900.5	985.2	1110.6	1258.8	1429.7	1567.6
50°	680.5	681.9	699.8	716.3	748.6	796.1	870.3	974.7	1110.9	1275.1	1428.5
52.5°	620.1	619.7	630.5	651.4	677.7	714.6	774.6	869.7	990.4	1137.7	1296.0
55°	529.3	532.8	541.0	557.5	577.5	603.6	651.0	722.5	817.3	943.1	1086.8
57.5°	460.3	462.1	468.6	475.5	493.9	512.8	548.5	598.1	678.1	781.1	915.0
60°	415.2	415.9	417.9	428.3	442.7	460.5	484.7	526.6	593.9	688.1	794.0
62.5°	371.2	372.5	375.7	383.1	394.3	406.7	431.9	465.5	521.3	601.8	697.2
65°	309.4	310.0	314.9	317.6	326.5	337.5	356.1	378.8	417.2	484.7	556.8
67.5°	258.5	258.5	258.7	262.4	268.6	276.0	287.1	305.2	334.2	375.7	439.3
70°	225.5	225.5	226.9	228.9	232.4	238.5	244.7	258.5	279.8	313.5	362.3
72.5°	194.7	195.2	196.6	197.0	198.8	203.9	208.4	217.2	233.1	258.5	297.9
75°	143.0	145.1	148.5	151.3	154.6	153.9	158.8	164.3	169.1	184.3	206.9
77.5°	106.4	105.3	105.7	108.1	108.5	109.2	112.6	116.8	120.5	127.6	135.7
80°	81.1	81.1	83.2	83.9	83.2	83.9	87.3	89.4	90.7	93.5	101.1
82.5°	61.3	62.4	61.7	62.4	62.9	63.5	66.4	66.8	68.2	69.3	72.5
85°	34.4	35.0	35.7	34.4	34.4	34.4	35.7	36.4	37.8	37.1	38.5
87.5°	14.1	13.6	14.3	14.1	14.6	14.0	14.6	15.5	14.3	15.0	14.8
90°	10.3	10.3	10.8	10.3	9.8	9.8	9.3	8.9	8.4	8.9	7.8
92.5°	37.8	37.8	39.5	42.1	48.0	57.8	72.6	96.4	129.8	155.8	136.4
95°	119.9	126.2	135.1	150.3	174.4	222.0	287.8	363.9	411.6	400.3	302.0
97.5°	320.3	330.5	345.3	374.9	410.1	461.4	509.5	537.7	517.1	421.6	282.8
100°	450.4	454.3	469.1	499.0	541.7	578.1	602.2	592.4	520.6	394.9	256.4
102.5°	563.5	566.7	582.2	603.9	630.2	645.3	638.3	589.6	491.1	361.5	238.7
105°	691.0	694.0	700.9	704.8	703.9	683.7	635.1	550.1	437.6	322.2	223.5
107.5°	738.4	737.1	732.2	721.0	696.7	653.0	584.4	494.0	394.4	300.2	220.8
110°	739.2	734.8	725.9	705.3	670.5	616.4	545.2	460.2	372.8	292.7	221.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	716.0	708.9	696.5	671.5	631.9	577.9	510.6	435.5	360.6	289.2	223.9
115°	663.6	659.6	643.9	614.4	575.7	528.5	471.1	410.6	349.2	287.3	228.4
117.5°	610.4	607.3	591.4	566.7	533.6	493.6	448.4	398.4	344.1	286.8	233.2
120°	580.6	575.1	562.4	540.8	512.7	477.9	438.6	393.0	341.4	286.8	236.8
122.5°	557.0	551.6	540.8	522.3	498.6	468.0	432.3	388.2	338.2	286.5	240.3
125°	529.4	526.5	517.2	502.9	483.3	456.2	422.4	380.1	333.0	285.9	245.6
127.5°	513.3	510.4	502.6	489.9	470.1	444.5	410.7	370.3	326.1	284.7	249.8
130°	503.9	501.0	493.1	480.9	460.7	434.6	401.3	362.5	321.7	284.4	253.0
132.5°	493.4	490.3	482.9	469.1	449.3	423.3	390.6	354.2	317.8	284.0	255.7
135°	473.5	470.5	462.7	448.9	429.3	404.7	374.8	342.9	311.9	283.4	259.8
137.5°	448.9	445.4	438.9	425.3	407.0	384.8	359.6	332.5	306.8	283.3	262.3
140°	431.3	427.3	420.4	409.7	392.4	371.8	349.7	326.6	304.0	282.9	264.2
142.5°	412.3	409.7	403.6	393.5	378.3	360.4	341.5	321.2	301.7	282.9	265.8
145°	386.5	384.1	379.2	370.8	358.5	344.8	330.0	313.3	297.6	281.9	266.7
147.5°	363.7	362.7	359.0	351.9	342.9	332.0	320.2	306.9	294.0	280.2	267.2
150°	350.7	350.2	347.2	340.9	333.0	324.2	314.4	303.1	291.3	279.0	267.2
152.5°	338.9	338.4	336.7	331.4	324.8	317.5	308.4	298.7	288.1	277.0	266.4
155°	323.6	323.6	322.2	318.3	313.3	307.5	300.1	292.2	283.4	274.1	265.2
157.5°	310.3	310.3	309.4	306.5	302.7	298.0	291.9	285.2	278.6	271.0	264.0
160°	302.0	302.0	301.6	298.6	295.7	291.7	286.4	280.9	275.1	268.6	262.8
162.5°	294.2	294.6	294.1	291.2	289.0	285.4	281.2	276.6	271.9	266.3	261.6
165°	282.4	282.9	283.4	281.5	279.5	277.0	273.5	270.6	266.7	262.8	259.3
167.5°	273.1	273.5	273.5	272.3	271.3	269.8	267.1	264.8	262.0	259.2	257.0
170°	267.2	267.2	267.7	267.2	266.2	264.8	262.8	261.3	258.8	256.8	255.4
172.5°	261.3	262.1	262.6	262.1	261.5	260.5	259.2	258.1	256.1	254.5	253.8
175°	254.4	255.4	256.4	255.4	255.4	255.4	254.4	253.9	253.0	251.9	251.9
177.5°	250.4	251.2	251.9	251.6	251.9	251.6	251.6	251.2	250.8	250.4	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1757.9	1750.2	1746.4	1737.6	1727.1	1721.6	1716.7	1709.5	1700.1	1690.2	1683.1
5°	1847.1	1830.7	1810.0	1785.3	1763.2	1742.0	1723.4	1704.9	1683.5	1661.6	1639.5
7.5°	1938.7	1906.3	1871.2	1830.7	1791.1	1755.3	1722.3	1690.7	1654.9	1622.9	1593.7
10°	2002.5	1958.5	1909.7	1858.1	1806.6	1761.9	1717.9	1678.0	1634.0	1594.8	1561.9
12.5°	2054.2	2002.5	1943.8	1879.6	1817.6	1763.5	1713.0	1661.0	1610.9	1568.5	1524.5
15°	2139.9	2069.2	1990.1	1913.1	1832.7	1759.1	1691.1	1630.6	1573.6	1513.7	1471.8
17.5°	2199.0	2115.0	2018.9	1926.3	1831.3	1744.6	1666.0	1594.1	1528.2	1467.1	1417.2
20°	2234.1	2141.3	2034.8	1929.6	1823.1	1730.3	1645.7	1566.0	1497.9	1431.9	1380.4
22.5°	2253.9	2151.2	2034.8	1924.7	1814.3	1713.7	1620.9	1537.9	1463.8	1397.8	1340.7
25°	2260.3	2150.3	2031.4	1904.9	1783.9	1677.3	1581.1	1491.0	1408.5	1342.6	1282.0
27.5°	2251.5	2121.9	2000.2	1870.4	1745.5	1633.2	1532.1	1437.5	1355.0	1284.1	1222.1
30°	2238.3	2099.4	1968.8	1834.1	1707.5	1599.7	1493.1	1402.4	1316.5	1242.9	1180.3
32.5°	2209.7	2071.9	1931.4	1793.4	1665.3	1554.0	1452.9	1361.7	1277.4	1202.2	1135.7
35°	2153.0	2013.4	1860.9	1719.2	1593.5	1478.0	1383.1	1295.1	1214.7	1134.3	1064.1
37.5°	2078.4	1935.8	1784.0	1628.9	1503.0	1394.0	1306.9	1224.3	1145.8	1072.4	994.7
40°	2008.0	1878.1	1721.3	1567.4	1438.1	1332.9	1252.5	1177.6	1098.5	1025.6	948.0
42.5°	1922.8	1812.1	1653.7	1499.2	1371.6	1270.2	1195.3	1122.1	1050.2	979.5	898.5
45°	1780.5	1696.6	1548.1	1399.6	1271.1	1170.7	1102.0	1037.3	974.0	906.7	830.4
47.5°	1617.4	1560.6	1432.4	1280.4	1161.5	1071.2	1004.8	951.9	898.5	831.1	764.1
50°	1504.1	1467.7	1343.9	1205.1	1091.7	1008.5	940.4	890.9	846.2	781.6	721.8
52.5°	1383.1	1363.7	1259.2	1126.4	1016.8	935.3	877.2	832.6	787.4	733.7	677.8
55°	1198.9	1209.2	1120.5	1005.7	902.6	833.9	780.9	743.8	705.3	660.0	616.6
57.5°	1010.6	1048.2	988.7	887.9	791.3	727.7	687.9	656.6	624.3	586.7	549.7
60°	897.8	929.4	895.7	807.0	722.5	663.4	626.3	602.2	569.9	535.5	507.3
62.5°	787.8	821.7	801.7	730.0	651.5	600.7	567.9	545.5	521.5	491.5	462.3
65°	649.6	671.6	662.0	612.5	556.8	513.5	483.3	466.7	444.8	422.8	396.7
67.5°	497.6	540.0	534.4	508.2	460.0	426.2	406.4	391.8	371.8	355.4	337.7
70°	409.1	448.2	447.5	426.2	400.1	368.4	354.7	342.3	324.4	308.7	294.2
72.5°	334.8	370.7	376.0	359.6	341.8	317.9	304.7	296.2	278.8	267.9	256.2
75°	234.5	260.5	267.4	267.4	259.2	246.8	235.1	229.6	217.2	207.6	200.7
77.5°	153.7	170.2	180.9	183.4	184.7	180.6	170.9	167.0	157.6	154.1	147.5
80°	108.6	119.6	132.0	136.1	139.6	138.2	134.1	131.3	122.3	118.9	116.1
82.5°	75.1	81.1	91.3	100.4	99.4	103.0	99.4	97.2	90.5	89.2	86.4
85°	39.2	39.9	41.2	47.4	50.9	52.3	53.0	51.6	49.5	49.5	44.7
87.5°	14.6	14.0	14.6	14.6	15.0	17.0	18.4	18.8	17.3	16.0	14.5
90°	6.9	6.9	4.0	4.0	3.4	2.9	1.5	0.5	1.5	2.9	3.4
92.5°	99.2	61.1	36.2	25.9	18.8	12.7	8.2	5.6	8.2	12.7	18.8
95°	184.7	104.1	61.4	40.7	29.0	22.6	17.7	16.2	17.7	22.6	29.0
97.5°	166.0	99.5	66.6	49.3	39.2	33.3	29.1	29.1	29.1	33.3	39.2
100°	156.2	100.7	71.7	56.0	46.7	40.7	37.4	37.4	37.4	40.7	46.7
102.5°	153.4	104.6	78.4	63.5	54.5	49.0	46.0	45.2	46.0	49.0	54.5
105°	154.7	113.9	90.4	76.1	67.3	61.4	59.0	57.4	59.0	61.4	67.3
107.5°	162.0	124.8	103.2	89.2	80.8	74.5	72.0	71.0	72.0	74.5	80.8
110°	167.5	133.1	111.5	98.2	89.4	83.5	81.0	80.1	81.0	83.5	89.4



TEST NUMBER: P332993-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	173.4	140.9	120.1	106.9	98.1	92.6	89.7	88.7	89.7	92.6	98.1
115°	182.7	153.3	133.6	120.4	111.0	106.1	102.6	101.2	102.6	106.1	111.0
117.5°	192.3	165.1	146.5	132.7	124.0	118.6	115.5	114.2	115.5	118.6	124.0
120°	198.9	173.4	154.7	140.9	132.6	127.2	123.8	122.8	123.8	127.2	132.6
122.5°	205.2	181.2	162.6	149.2	140.1	135.1	131.6	130.6	131.6	135.1	140.1
125°	214.6	192.0	174.4	160.6	151.3	145.9	142.9	140.9	142.9	145.9	151.3
127.5°	222.8	202.1	184.9	171.1	161.4	155.2	151.7	150.1	151.7	155.2	161.4
130°	227.9	208.7	192.0	177.8	168.5	161.1	157.1	155.2	157.1	161.1	168.5
132.5°	233.0	214.2	197.5	184.1	174.0	167.0	161.9	160.3	161.9	167.0	174.0
135°	239.7	222.0	205.8	193.0	182.7	174.4	169.4	167.5	169.4	174.4	182.7
137.5°	244.4	227.9	212.8	200.6	189.9	181.9	176.5	174.7	176.5	181.9	189.9
140°	247.5	231.9	217.1	205.3	195.0	186.7	181.2	179.8	181.2	186.7	195.0
142.5°	249.9	235.4	221.0	209.7	199.7	191.7	186.8	185.3	186.8	191.7	199.7
145°	252.4	239.2	226.4	215.6	206.3	199.4	194.5	193.0	194.5	199.4	206.3
147.5°	254.7	243.1	231.2	221.4	213.6	206.6	202.2	201.7	202.2	206.6	213.6
150°	255.9	245.1	234.3	225.0	217.6	211.7	207.8	207.2	207.8	211.7	217.6
152.5°	256.7	246.7	237.0	228.5	221.9	216.4	212.5	212.4	212.5	216.4	221.9
155°	257.4	249.0	240.6	233.3	227.9	223.0	220.1	219.6	220.1	223.0	227.9
157.5°	257.4	250.7	243.6	237.8	233.1	229.3	226.5	226.5	226.5	229.3	233.1
160°	257.4	251.5	245.6	240.1	236.3	232.8	230.8	230.8	230.8	232.8	236.3
162.5°	257.4	252.3	246.8	242.5	239.0	235.9	234.4	234.8	234.4	235.9	239.0
165°	256.4	252.4	248.1	245.1	242.6	240.1	239.2	239.2	239.2	240.1	242.6
167.5°	255.2	252.4	249.1	246.8	245.5	243.6	243.1	243.6	243.1	243.6	245.5
170°	254.4	251.9	249.5	248.1	247.0	245.6	245.1	245.6	245.1	245.6	247.0
172.5°	253.7	251.6	249.9	248.8	248.2	247.1	247.0	247.5	247.0	247.1	248.2
175°	252.4	251.0	250.0	250.0	249.5	249.0	249.0	249.5	249.0	249.0	249.5
177.5°	251.2	250.4	250.0	250.0	250.0	249.6	250.0	250.4	250.0	249.6	250.0
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332993-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1675.4	1669.9	1662.8	1654.5	1644.6	1635.8	1631.9	1635.3	1636.9	1632.5	1631.9
5°	1624.4	1607.2	1593.5	1572.9	1556.3	1542.6	1533.0	1528.9	1530.3	1519.2	1516.5
7.5°	1567.1	1546.7	1524.1	1499.7	1476.9	1456.6	1446.0	1440.3	1428.7	1423.7	1415.3
10°	1530.3	1502.7	1480.7	1451.8	1425.7	1401.7	1390.0	1380.4	1368.6	1363.1	1351.5
12.5°	1492.3	1460.3	1436.1	1406.2	1379.5	1350.6	1339.4	1321.5	1303.2	1291.7	1276.7
15°	1438.8	1400.3	1370.7	1335.0	1303.4	1270.4	1240.8	1207.8	1195.4	1169.3	1154.2
17.5°	1376.2	1337.2	1300.6	1252.7	1203.9	1162.9	1131.4	1099.8	1080.8	1064.1	1056.4
20°	1335.0	1299.2	1248.4	1192.7	1138.4	1093.0	1067.6	1047.0	1026.3	1014.7	1006.4
22.5°	1296.0	1250.3	1191.2	1131.1	1076.8	1041.3	1019.8	998.6	981.8	970.7	959.7
25°	1230.5	1170.7	1108.1	1039.4	1002.3	971.4	948.0	930.7	920.5	906.0	900.5
27.5°	1163.3	1090.8	1021.8	975.6	936.9	908.6	888.3	875.4	862.3	853.1	845.9
30°	1111.6	1038.0	976.1	932.1	892.9	869.6	853.1	838.0	827.7	820.1	814.6
32.5°	1060.4	986.9	934.9	887.6	856.7	833.9	816.2	804.9	796.9	787.1	783.8
35°	986.4	921.2	875.8	833.2	801.5	780.9	767.2	755.5	748.6	745.9	743.8
37.5°	915.4	861.9	813.1	778.2	750.0	733.7	717.6	711.8	707.1	702.1	704.4
40°	870.3	820.1	776.8	739.7	717.0	699.1	689.5	682.6	678.5	678.5	678.5
42.5°	831.2	782.1	739.9	706.7	684.0	668.9	658.1	652.4	651.0	650.5	653.8
45°	770.6	725.2	682.6	655.1	635.8	620.8	614.6	609.8	609.8	612.5	613.2
47.5°	710.5	668.0	633.8	603.0	585.4	575.9	570.6	568.1	568.3	571.1	574.3
50°	673.6	631.7	598.1	570.6	554.1	545.1	540.3	539.0	540.3	540.3	545.1
52.5°	633.5	596.0	562.8	539.8	521.1	512.7	510.1	508.2	508.9	511.2	513.2
55°	574.7	541.0	509.4	487.4	473.6	468.1	461.9	462.6	461.2	462.6	462.6
57.5°	515.7	485.4	456.1	438.6	426.5	418.5	411.7	413.7	411.6	411.4	410.3
60°	477.8	444.8	421.4	405.6	391.8	385.0	378.8	380.1	378.1	376.7	373.9
62.5°	436.5	409.1	386.8	371.5	360.5	352.5	346.3	344.9	340.2	335.4	329.4
65°	376.7	354.0	334.1	319.7	309.4	303.2	298.3	294.2	283.9	272.9	267.4
67.5°	318.6	302.2	283.6	271.4	263.0	254.9	245.7	238.7	229.0	223.0	219.6
70°	281.1	265.4	249.5	237.8	228.9	221.4	211.0	206.2	199.3	196.6	193.2
72.5°	245.4	230.7	216.0	205.4	195.9	190.0	181.9	177.1	174.1	173.0	169.5
75°	191.1	179.4	168.4	158.8	151.3	147.1	143.7	140.3	138.9	132.7	129.2
77.5°	139.4	131.7	124.8	118.0	112.6	109.9	103.2	99.3	96.9	94.0	93.3
80°	108.6	103.1	96.3	92.1	84.6	81.8	79.0	78.4	77.7	77.0	76.3
82.5°	81.7	76.2	69.3	66.8	64.7	63.1	61.5	60.8	60.1	60.5	60.4
85°	41.2	38.5	38.5	37.8	37.1	36.4	35.7	35.7	35.0	35.7	35.0
87.5°	14.6	13.9	14.6	13.4	14.2	14.4	13.8	13.9	14.6	13.5	13.5
90°	4.0	4.0	6.9	6.9	7.8	8.9	8.4	8.9	9.3	9.8	9.8
92.5°	25.9	36.2	61.1	99.2	136.4	155.8	129.8	96.4	72.6	57.8	48.0
95°	40.7	61.4	104.1	184.7	302.0	400.3	411.6	363.9	287.8	222.0	174.4
97.5°	49.3	66.6	99.5	166.0	282.8	421.6	517.1	537.7	509.5	461.4	410.1
100°	56.0	71.7	100.7	156.2	256.4	394.9	520.6	592.4	602.2	578.1	541.7
102.5°	63.5	78.4	104.6	153.4	238.7	361.5	491.1	589.6	638.3	645.3	630.2
105°	76.1	90.4	113.9	154.7	223.5	322.2	437.6	550.1	635.1	683.7	703.9
107.5°	89.2	103.2	124.8	162.0	220.8	300.2	394.4	494.0	584.4	653.0	696.7
110°	98.2	111.5	133.1	167.5	221.5	292.7	372.8	460.2	545.2	616.4	670.5



TEST NUMBER: P332993-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	106.9	120.1	140.9	173.4	223.9	289.2	360.6	435.5	510.6	577.9	631.9
115°	120.4	133.6	153.3	182.7	228.4	287.3	349.2	410.6	471.1	528.5	575.7
117.5°	132.7	146.5	165.1	192.3	233.2	286.8	344.1	398.4	448.4	493.6	533.6
120°	140.9	154.7	173.4	198.9	236.8	286.8	341.4	393.0	438.6	477.9	512.7
122.5°	149.2	162.6	181.2	205.2	240.3	286.5	338.2	388.2	432.3	468.0	498.6
125°	160.6	174.4	192.0	214.6	245.6	285.9	333.0	380.1	422.4	456.2	483.3
127.5°	171.1	184.9	202.1	222.8	249.8	284.7	326.1	370.3	410.7	444.5	470.1
130°	177.8	192.0	208.7	227.9	253.0	284.4	321.7	362.5	401.3	434.6	460.7
132.5°	184.1	197.5	214.2	233.0	255.7	284.0	317.8	354.2	390.6	423.3	449.3
135°	193.0	205.8	222.0	239.7	259.8	283.4	311.9	342.9	374.8	404.7	429.3
137.5°	200.6	212.8	227.9	244.4	262.3	283.3	306.8	332.5	359.6	384.8	407.0
140°	205.3	217.1	231.9	247.5	264.2	282.9	304.0	326.6	349.7	371.8	392.4
142.5°	209.7	221.0	235.4	249.9	265.8	282.9	301.7	321.2	341.5	360.4	378.3
145°	215.6	226.4	239.2	252.4	266.7	281.9	297.6	313.3	330.0	344.8	358.5
147.5°	221.4	231.2	243.1	254.7	267.2	280.2	294.0	306.9	320.2	332.0	342.9
150°	225.0	234.3	245.1	255.9	267.2	279.0	291.3	303.1	314.4	324.2	333.0
152.5°	228.5	237.0	246.7	256.7	266.4	277.0	288.1	298.7	308.4	317.5	324.8
155°	233.3	240.6	249.0	257.4	265.2	274.1	283.4	292.2	300.1	307.5	313.3
157.5°	237.8	243.6	250.7	257.4	264.0	271.0	278.6	285.2	291.9	298.0	302.7
160°	240.1	245.6	251.5	257.4	262.8	268.6	275.1	280.9	286.4	291.7	295.7
162.5°	242.5	246.8	252.3	257.4	261.6	266.3	271.9	276.6	281.2	285.4	289.0
165°	245.1	248.1	252.4	256.4	259.3	262.8	266.7	270.6	273.5	277.0	279.5
167.5°	246.8	249.1	252.4	255.2	257.0	259.2	262.0	264.8	267.1	269.8	271.3
170°	248.1	249.5	251.9	254.4	255.4	256.8	258.8	261.3	262.8	264.8	266.2
172.5°	248.8	249.9	251.6	253.7	253.8	254.5	256.1	258.1	259.2	260.5	261.5
175°	250.0	250.0	251.0	252.4	251.9	251.9	253.0	253.9	254.4	255.4	255.4
177.5°	250.0	250.0	250.4	251.2	250.4	250.4	250.8	251.2	251.6	251.6	251.9
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332993-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1628.7	1629.8	1625.9	1624.8	1625.9	1629.8	1628.7	1631.9	1632.5	1636.9	1635.3
5°	1511.0	1509.6	1506.1	1506.8	1506.1	1509.6	1511.0	1516.5	1519.2	1530.3	1528.9
7.5°	1410.3	1405.0	1406.4	1401.0	1406.4	1405.0	1410.3	1415.3	1423.7	1428.7	1440.3
10°	1348.8	1341.2	1335.0	1329.5	1335.0	1341.2	1348.8	1351.5	1363.1	1368.6	1380.4
12.5°	1264.6	1258.1	1249.7	1251.4	1249.7	1258.1	1264.6	1276.7	1291.7	1303.2	1321.5
15°	1145.2	1135.0	1118.4	1120.5	1118.4	1135.0	1145.2	1154.2	1169.3	1195.4	1207.8
17.5°	1044.2	1044.3	1036.8	1038.5	1036.8	1044.3	1044.2	1056.4	1064.1	1080.8	1099.8
20°	992.0	987.1	987.8	985.8	987.8	987.1	992.0	1006.4	1014.7	1026.3	1047.0
22.5°	955.6	949.8	944.9	940.6	944.9	949.8	955.6	959.7	970.7	981.8	998.6
25°	894.3	890.2	884.1	882.7	884.1	890.2	894.3	900.5	906.0	920.5	930.7
27.5°	840.4	839.6	837.2	834.0	837.2	839.6	840.4	845.9	853.1	862.3	875.4
30°	809.1	807.7	806.3	804.3	806.3	807.7	809.1	814.6	820.1	827.7	838.0
32.5°	781.1	780.2	778.9	779.0	778.9	780.2	781.1	783.8	787.1	796.9	804.9
35°	741.1	740.4	739.0	738.3	739.0	740.4	741.1	743.8	745.9	748.6	755.5
37.5°	703.7	705.4	704.6	704.5	704.6	705.4	703.7	704.4	702.1	707.1	711.8
40°	677.8	678.5	679.8	679.2	679.8	678.5	677.8	678.5	678.5	678.5	682.6
42.5°	656.3	656.5	658.4	656.1	658.4	656.5	656.3	653.8	650.5	651.0	652.4
45°	618.0	622.2	621.5	621.5	621.5	622.2	618.0	613.2	612.5	609.8	609.8
47.5°	576.1	579.6	580.6	580.5	580.6	579.6	576.1	574.3	571.1	568.3	568.1
50°	548.5	547.2	549.2	548.5	549.2	547.2	548.5	545.1	540.3	540.3	539.0
52.5°	515.1	515.3	515.1	514.4	515.1	515.3	515.1	513.2	511.2	508.9	508.2
55°	463.3	464.0	462.6	463.3	462.6	464.0	463.3	462.6	462.6	461.2	462.6
57.5°	407.3	403.9	405.3	403.6	405.3	403.9	407.3	410.3	411.4	411.6	413.7
60°	367.1	361.6	360.2	357.5	360.2	361.6	367.1	373.9	376.7	378.1	380.1
62.5°	322.0	318.1	313.5	315.6	313.5	318.1	322.0	329.4	335.4	340.2	344.9
65°	261.9	259.2	257.1	259.8	257.1	259.2	261.9	267.4	272.9	283.9	294.2
67.5°	216.8	215.3	215.3	214.0	215.3	215.3	216.8	219.6	223.0	229.0	238.7
70°	193.2	191.1	191.1	189.8	191.1	191.1	193.2	193.2	196.6	199.3	206.2
72.5°	168.9	166.9	167.5	166.6	167.5	166.9	168.9	169.5	173.0	174.1	177.1
75°	125.1	121.7	121.7	122.3	121.7	121.7	125.1	129.2	132.7	138.9	140.3
77.5°	93.3	92.6	93.6	92.4	93.6	92.6	93.3	93.3	94.0	96.9	99.3
80°	76.3	75.6	74.9	77.0	74.9	75.6	76.3	76.3	77.0	77.7	78.4
82.5°	59.2	59.2	59.0	61.6	59.0	59.2	59.2	60.4	60.5	60.1	60.8
85°	35.7	34.4	35.7	34.4	35.7	34.4	35.7	35.0	35.7	35.0	35.7
87.5°	14.7	14.3	13.6	14.1	13.6	14.3	14.7	13.5	13.5	14.6	13.9
90°	10.3	10.8	10.3	10.3	10.3	10.8	10.3	9.8	9.8	9.3	8.9
92.5°	42.1	39.5	37.8	37.8	37.8	39.5	42.1	48.0	57.8	72.6	96.4
95°	150.3	135.1	126.2	119.9	126.2	135.1	150.3	174.4	222.0	287.8	363.9
97.5°	374.9	345.3	330.5	320.3	330.5	345.3	374.9	410.1	461.4	509.5	537.7
100°	499.0	469.1	454.3	450.4	454.3	469.1	499.0	541.7	578.1	602.2	592.4
102.5°	603.9	582.2	566.7	563.5	566.7	582.2	603.9	630.2	645.3	638.3	589.6
105°	704.8	700.9	694.0	691.0	694.0	700.9	704.8	703.9	683.7	635.1	550.1
107.5°	721.0	732.2	737.1	738.4	737.1	732.2	721.0	696.7	653.0	584.4	494.0
110°	705.3	725.9	734.8	739.2	734.8	725.9	705.3	670.5	616.4	545.2	460.2



TEST NUMBER: P332993-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	671.5	696.5	708.9	716.0	708.9	696.5	671.5	631.9	577.9	510.6	435.5
115°	614.4	643.9	659.6	663.6	659.6	643.9	614.4	575.7	528.5	471.1	410.6
117.5°	566.7	591.4	607.3	610.4	607.3	591.4	566.7	533.6	493.6	448.4	398.4
120°	540.8	562.4	575.1	580.6	575.1	562.4	540.8	512.7	477.9	438.6	393.0
122.5°	522.3	540.8	551.6	557.0	551.6	540.8	522.3	498.6	468.0	432.3	388.2
125°	502.9	517.2	526.5	529.4	526.5	517.2	502.9	483.3	456.2	422.4	380.1
127.5°	489.9	502.6	510.4	513.3	510.4	502.6	489.9	470.1	444.5	410.7	370.3
130°	480.9	493.1	501.0	503.9	501.0	493.1	480.9	460.7	434.6	401.3	362.5
132.5°	469.1	482.9	490.3	493.4	490.3	482.9	469.1	449.3	423.3	390.6	354.2
135°	448.9	462.7	470.5	473.5	470.5	462.7	448.9	429.3	404.7	374.8	342.9
137.5°	425.3	438.9	445.4	448.9	445.4	438.9	425.3	407.0	384.8	359.6	332.5
140°	409.7	420.4	427.3	431.3	427.3	420.4	409.7	392.4	371.8	349.7	326.6
142.5°	393.5	403.6	409.7	412.3	409.7	403.6	393.5	378.3	360.4	341.5	321.2
145°	370.8	379.2	384.1	386.5	384.1	379.2	370.8	358.5	344.8	330.0	313.3
147.5°	351.9	359.0	362.7	363.7	362.7	359.0	351.9	342.9	332.0	320.2	306.9
150°	340.9	347.2	350.2	350.7	350.2	347.2	340.9	333.0	324.2	314.4	303.1
152.5°	331.4	336.7	338.4	338.9	338.4	336.7	331.4	324.8	317.5	308.4	298.7
155°	318.3	322.2	323.6	323.6	323.6	322.2	318.3	313.3	307.5	300.1	292.2
157.5°	306.5	309.4	310.3	310.3	310.3	309.4	306.5	302.7	298.0	291.9	285.2
160°	298.6	301.6	302.0	302.0	302.0	301.6	298.6	295.7	291.7	286.4	280.9
162.5°	291.2	294.1	294.6	294.2	294.6	294.1	291.2	289.0	285.4	281.2	276.6
165°	281.5	283.4	282.9	282.4	282.9	283.4	281.5	279.5	277.0	273.5	270.6
167.5°	272.3	273.5	273.5	273.1	273.5	273.5	272.3	271.3	269.8	267.1	264.8
170°	267.2	267.7	267.2	267.2	267.2	267.7	267.2	266.2	264.8	262.8	261.3
172.5°	262.1	262.6	262.1	261.3	262.1	262.6	262.1	261.5	260.5	259.2	258.1
175°	255.4	256.4	255.4	254.4	255.4	256.4	255.4	255.4	255.4	254.4	253.9
177.5°	251.6	251.9	251.2	250.4	251.2	251.9	251.6	251.9	251.6	251.6	251.2
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332993-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1631.9	1635.8	1644.6	1654.5	1662.8	1669.9	1675.4	1683.1	1690.2	1700.1	1709.5
5°	1533.0	1542.6	1556.3	1572.9	1593.5	1607.2	1624.4	1639.5	1661.6	1683.5	1704.9
7.5°	1446.0	1456.6	1476.9	1499.7	1524.1	1546.7	1567.1	1593.7	1622.9	1654.9	1690.7
10°	1390.0	1401.7	1425.7	1451.8	1480.7	1502.7	1530.3	1561.9	1594.8	1634.0	1678.0
12.5°	1339.4	1350.6	1379.5	1406.2	1436.1	1460.3	1492.3	1524.5	1568.5	1610.9	1661.0
15°	1240.8	1270.4	1303.4	1335.0	1370.7	1400.3	1438.8	1471.8	1513.7	1573.6	1630.6
17.5°	1131.4	1162.9	1203.9	1252.7	1300.6	1337.2	1376.2	1417.2	1467.1	1528.2	1594.1
20°	1067.6	1093.0	1138.4	1192.7	1248.4	1299.2	1335.0	1380.4	1431.9	1497.9	1566.0
22.5°	1019.8	1041.3	1076.8	1131.1	1191.2	1250.3	1296.0	1340.7	1397.8	1463.8	1537.9
25°	948.0	971.4	1002.3	1039.4	1108.1	1170.7	1230.5	1282.0	1342.6	1408.5	1491.0
27.5°	888.3	908.6	936.9	975.6	1021.8	1090.8	1163.3	1222.1	1284.1	1355.0	1437.5
30°	853.1	869.6	892.9	932.1	976.1	1038.0	1111.6	1180.3	1242.9	1316.5	1402.4
32.5°	816.2	833.9	856.7	887.6	934.9	986.9	1060.4	1135.7	1202.2	1277.4	1361.7
35°	767.2	780.9	801.5	833.2	875.8	921.2	986.4	1064.1	1134.3	1214.7	1295.1
37.5°	717.6	733.7	750.0	778.2	813.1	861.9	915.4	994.7	1072.4	1145.8	1224.3
40°	689.5	699.1	717.0	739.7	776.8	820.1	870.3	948.0	1025.6	1098.5	1177.6
42.5°	658.1	668.9	684.0	706.7	739.9	782.1	831.2	898.5	979.5	1050.2	1122.1
45°	614.6	620.8	635.8	655.1	682.6	725.2	770.6	830.4	906.7	974.0	1037.3
47.5°	570.6	575.9	585.4	603.0	633.8	668.0	710.5	764.1	831.1	898.5	951.9
50°	540.3	545.1	554.1	570.6	598.1	631.7	673.6	721.8	781.6	846.2	890.9
52.5°	510.1	512.7	521.1	539.8	562.8	596.0	633.5	677.8	733.7	787.4	832.6
55°	461.9	468.1	473.6	487.4	509.4	541.0	574.7	616.6	660.0	705.3	743.8
57.5°	411.7	418.5	426.5	438.6	456.1	485.4	515.7	549.7	586.7	624.3	656.6
60°	378.8	385.0	391.8	405.6	421.4	444.8	477.8	507.3	535.5	569.9	602.2
62.5°	346.3	352.5	360.5	371.5	386.8	409.1	436.5	462.3	491.5	521.5	545.5
65°	298.3	303.2	309.4	319.7	334.1	354.0	376.7	396.7	422.8	444.8	466.7
67.5°	245.7	254.9	263.0	271.4	283.6	302.2	318.6	337.7	355.4	371.8	391.8
70°	211.0	221.4	228.9	237.8	249.5	265.4	281.1	294.2	308.7	324.4	342.3
72.5°	181.9	190.0	195.9	205.4	216.0	230.7	245.4	256.2	267.9	278.8	296.2
75°	143.7	147.1	151.3	158.8	168.4	179.4	191.1	200.7	207.6	217.2	229.6
77.5°	103.2	109.9	112.6	118.0	124.8	131.7	139.4	147.5	154.1	157.6	167.0
80°	79.0	81.8	84.6	92.1	96.3	103.1	108.6	116.1	118.9	122.3	131.3
82.5°	61.5	63.1	64.7	66.8	69.3	76.2	81.7	86.4	89.2	90.5	97.2
85°	35.7	36.4	37.1	37.8	38.5	38.5	41.2	44.7	49.5	49.5	51.6
87.5°	13.8	14.4	14.2	13.4	14.6	13.9	14.6	14.5	16.0	17.3	18.8
90°	8.4	8.9	7.8	6.9	6.9	4.0	4.0	3.4	2.9	1.5	0.5
92.5°	129.8	155.8	136.4	99.2	61.1	36.2	25.9	18.8	12.7	8.2	5.6
95°	411.6	400.3	302.0	184.7	104.1	61.4	40.7	29.0	22.6	17.7	16.2
97.5°	517.1	421.6	282.8	166.0	99.5	66.6	49.3	39.2	33.3	29.1	29.1
100°	520.6	394.9	256.4	156.2	100.7	71.7	56.0	46.7	40.7	37.4	37.4
102.5°	491.1	361.5	238.7	153.4	104.6	78.4	63.5	54.5	49.0	46.0	45.2
105°	437.6	322.2	223.5	154.7	113.9	90.4	76.1	67.3	61.4	59.0	57.4
107.5°	394.4	300.2	220.8	162.0	124.8	103.2	89.2	80.8	74.5	72.0	71.0
110°	372.8	292.7	221.5	167.5	133.1	111.5	98.2	89.4	83.5	81.0	80.1



TEST NUMBER: P332993-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	360.6	289.2	223.9	173.4	140.9	120.1	106.9	98.1	92.6	89.7	88.7
115°	349.2	287.3	228.4	182.7	153.3	133.6	120.4	111.0	106.1	102.6	101.2
117.5°	344.1	286.8	233.2	192.3	165.1	146.5	132.7	124.0	118.6	115.5	114.2
120°	341.4	286.8	236.8	198.9	173.4	154.7	140.9	132.6	127.2	123.8	122.8
122.5°	338.2	286.5	240.3	205.2	181.2	162.6	149.2	140.1	135.1	131.6	130.6
125°	333.0	285.9	245.6	214.6	192.0	174.4	160.6	151.3	145.9	142.9	140.9
127.5°	326.1	284.7	249.8	222.8	202.1	184.9	171.1	161.4	155.2	151.7	150.1
130°	321.7	284.4	253.0	227.9	208.7	192.0	177.8	168.5	161.1	157.1	155.2
132.5°	317.8	284.0	255.7	233.0	214.2	197.5	184.1	174.0	167.0	161.9	160.3
135°	311.9	283.4	259.8	239.7	222.0	205.8	193.0	182.7	174.4	169.4	167.5
137.5°	306.8	283.3	262.3	244.4	227.9	212.8	200.6	189.9	181.9	176.5	174.7
140°	304.0	282.9	264.2	247.5	231.9	217.1	205.3	195.0	186.7	181.2	179.8
142.5°	301.7	282.9	265.8	249.9	235.4	221.0	209.7	199.7	191.7	186.8	185.3
145°	297.6	281.9	266.7	252.4	239.2	226.4	215.6	206.3	199.4	194.5	193.0
147.5°	294.0	280.2	267.2	254.7	243.1	231.2	221.4	213.6	206.6	202.2	201.7
150°	291.3	279.0	267.2	255.9	245.1	234.3	225.0	217.6	211.7	207.8	207.2
152.5°	288.1	277.0	266.4	256.7	246.7	237.0	228.5	221.9	216.4	212.5	212.4
155°	283.4	274.1	265.2	257.4	249.0	240.6	233.3	227.9	223.0	220.1	219.6
157.5°	278.6	271.0	264.0	257.4	250.7	243.6	237.8	233.1	229.3	226.5	226.5
160°	275.1	268.6	262.8	257.4	251.5	245.6	240.1	236.3	232.8	230.8	230.8
162.5°	271.9	266.3	261.6	257.4	252.3	246.8	242.5	239.0	235.9	234.4	234.8
165°	266.7	262.8	259.3	256.4	252.4	248.1	245.1	242.6	240.1	239.2	239.2
167.5°	262.0	259.2	257.0	255.2	252.4	249.1	246.8	245.5	243.6	243.1	243.6
170°	258.8	256.8	255.4	254.4	251.9	249.5	248.1	247.0	245.6	245.1	245.6
172.5°	256.1	254.5	253.8	253.7	251.6	249.9	248.8	248.2	247.1	247.0	247.5
175°	253.0	251.9	251.9	252.4	251.0	250.0	250.0	249.5	249.0	249.0	249.5
177.5°	250.8	250.4	250.4	251.2	250.4	250.0	250.0	250.0	249.6	250.0	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332993-935

CATALOG NUMBER: SA4XXRDIP-C1195D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1716.7	1721.6	1727.1	1737.6	1746.4	1750.2	1757.9	1763.4	1761.8	1769.4	1782.6
5°	1723.4	1742.0	1763.2	1785.3	1810.0	1830.7	1847.1	1863.6	1876.7	1892.5	1915.9
7.5°	1722.3	1755.3	1791.1	1830.7	1871.2	1906.3	1938.7	1971.7	2001.0	2033.0	2074.9
10°	1717.9	1761.9	1806.6	1858.1	1909.7	1958.5	2002.5	2043.8	2082.9	2124.9	2177.8
12.5°	1713.0	1763.5	1817.6	1879.6	1943.8	2002.5	2054.2	2113.6	2162.7	2216.7	2277.9
15°	1691.1	1759.1	1832.7	1913.1	1990.1	2069.2	2139.9	2212.9	2280.9	2345.5	2422.5
17.5°	1666.0	1744.6	1831.3	1926.3	2018.9	2115.0	2199.0	2290.8	2360.3	2447.1	2518.6
20°	1645.7	1730.3	1823.1	1929.6	2034.8	2141.3	2234.1	2327.6	2406.0	2493.3	2584.0
22.5°	1620.9	1713.7	1814.3	1924.7	2034.8	2151.2	2253.9	2346.9	2443.9	2542.3	2635.8
25°	1581.1	1677.3	1783.9	1904.9	2031.4	2150.3	2260.3	2375.8	2480.3	2586.8	2670.6
27.5°	1532.1	1633.2	1745.5	1870.4	2000.2	2121.9	2251.5	2374.6	2479.7	2582.2	2655.4
30°	1493.1	1599.7	1707.5	1834.1	1968.8	2099.4	2238.3	2361.3	2472.0	2564.1	2605.4
32.5°	1452.9	1554.0	1665.3	1793.4	1931.4	2071.9	2209.7	2335.5	2437.9	2493.2	2494.2
35°	1383.1	1478.0	1593.5	1719.2	1860.9	2013.4	2153.0	2276.7	2339.3	2344.2	2276.7
37.5°	1306.9	1394.0	1503.0	1628.9	1784.0	1935.8	2078.4	2160.9	2181.8	2111.8	1987.2
40°	1252.5	1332.9	1438.1	1567.4	1721.3	1878.1	2008.0	2068.5	2046.5	1933.0	1794.2
42.5°	1195.3	1270.2	1371.6	1499.2	1653.7	1812.1	1922.8	1955.2	1896.9	1765.9	1603.4
45°	1102.0	1170.7	1271.1	1399.6	1548.1	1696.6	1780.5	1763.9	1667.0	1511.7	1329.5
47.5°	1004.8	1071.2	1161.5	1280.4	1432.4	1560.6	1617.4	1567.6	1429.7	1258.8	1110.6
50°	940.4	1008.5	1091.7	1205.1	1343.9	1467.7	1504.1	1428.5	1275.1	1110.9	974.7
52.5°	877.2	935.3	1016.8	1126.4	1259.2	1363.7	1383.1	1296.0	1137.7	990.4	869.7
55°	780.9	833.9	902.6	1005.7	1120.5	1209.2	1198.9	1086.8	943.1	817.3	722.5
57.5°	687.9	727.7	791.3	887.9	988.7	1048.2	1010.6	915.0	781.1	678.1	598.1
60°	626.3	663.4	722.5	807.0	895.7	929.4	897.8	794.0	688.1	593.9	526.6
62.5°	567.9	600.7	651.5	730.0	801.7	821.7	787.8	697.2	601.8	521.3	465.5
65°	483.3	513.5	556.8	612.5	662.0	671.6	649.6	556.8	484.7	417.2	378.8
67.5°	406.4	426.2	460.0	508.2	534.4	540.0	497.6	439.3	375.7	334.2	305.2
70°	354.7	368.4	400.1	426.2	447.5	448.2	409.1	362.3	313.5	279.8	258.5
72.5°	304.7	317.9	341.8	359.6	376.0	370.7	334.8	297.9	258.5	233.1	217.2
75°	235.1	246.8	259.2	267.4	267.4	260.5	234.5	206.9	184.3	169.1	164.3
77.5°	170.9	180.6	184.7	183.4	180.9	170.2	153.7	135.7	127.6	120.5	116.8
80°	134.1	138.2	139.6	136.1	132.0	119.6	108.6	101.1	93.5	90.7	89.4
82.5°	99.4	103.0	99.4	100.4	91.3	81.1	75.1	72.5	69.3	68.2	66.8
85°	53.0	52.3	50.9	47.4	41.2	39.9	39.2	38.5	37.1	37.8	36.4
87.5°	18.4	17.0	15.0	14.6	14.6	14.0	14.6	14.8	15.0	14.3	15.5
90°	1.5	2.9	3.4	4.0	4.0	6.9	6.9	7.8	8.9	8.4	8.9
92.5°	8.2	12.7	18.8	25.9	36.2	61.1	99.2	136.4	155.8	129.8	96.4
95°	17.7	22.6	29.0	40.7	61.4	104.1	184.7	302.0	400.3	411.6	363.9
97.5°	29.1	33.3	39.2	49.3	66.6	99.5	166.0	282.8	421.6	517.1	537.7
100°	37.4	40.7	46.7	56.0	71.7	100.7	156.2	256.4	394.9	520.6	592.4
102.5°	46.0	49.0	54.5	63.5	78.4	104.6	153.4	238.7	361.5	491.1	589.6
105°	59.0	61.4	67.3	76.1	90.4	113.9	154.7	223.5	322.2	437.6	550.1
107.5°	72.0	74.5	80.8	89.2	103.2	124.8	162.0	220.8	300.2	394.4	494.0
110°	81.0	83.5	89.4	98.2	111.5	133.1	167.5	221.5	292.7	372.8	460.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	89.7	92.6	98.1	106.9	120.1	140.9	173.4	223.9	289.2	360.6	435.5
115°	102.6	106.1	111.0	120.4	133.6	153.3	182.7	228.4	287.3	349.2	410.6
117.5°	115.5	118.6	124.0	132.7	146.5	165.1	192.3	233.2	286.8	344.1	398.4
120°	123.8	127.2	132.6	140.9	154.7	173.4	198.9	236.8	286.8	341.4	393.0
122.5°	131.6	135.1	140.1	149.2	162.6	181.2	205.2	240.3	286.5	338.2	388.2
125°	142.9	145.9	151.3	160.6	174.4	192.0	214.6	245.6	285.9	333.0	380.1
127.5°	151.7	155.2	161.4	171.1	184.9	202.1	222.8	249.8	284.7	326.1	370.3
130°	157.1	161.1	168.5	177.8	192.0	208.7	227.9	253.0	284.4	321.7	362.5
132.5°	161.9	167.0	174.0	184.1	197.5	214.2	233.0	255.7	284.0	317.8	354.2
135°	169.4	174.4	182.7	193.0	205.8	222.0	239.7	259.8	283.4	311.9	342.9
137.5°	176.5	181.9	189.9	200.6	212.8	227.9	244.4	262.3	283.3	306.8	332.5
140°	181.2	186.7	195.0	205.3	217.1	231.9	247.5	264.2	282.9	304.0	326.6
142.5°	186.8	191.7	199.7	209.7	221.0	235.4	249.9	265.8	282.9	301.7	321.2
145°	194.5	199.4	206.3	215.6	226.4	239.2	252.4	266.7	281.9	297.6	313.3
147.5°	202.2	206.6	213.6	221.4	231.2	243.1	254.7	267.2	280.2	294.0	306.9
150°	207.8	211.7	217.6	225.0	234.3	245.1	255.9	267.2	279.0	291.3	303.1
152.5°	212.5	216.4	221.9	228.5	237.0	246.7	256.7	266.4	277.0	288.1	298.7
155°	220.1	223.0	227.9	233.3	240.6	249.0	257.4	265.2	274.1	283.4	292.2
157.5°	226.5	229.3	233.1	237.8	243.6	250.7	257.4	264.0	271.0	278.6	285.2
160°	230.8	232.8	236.3	240.1	245.6	251.5	257.4	262.8	268.6	275.1	280.9
162.5°	234.4	235.9	239.0	242.5	246.8	252.3	257.4	261.6	266.3	271.9	276.6
165°	239.2	240.1	242.6	245.1	248.1	252.4	256.4	259.3	262.8	266.7	270.6
167.5°	243.1	243.6	245.5	246.8	249.1	252.4	255.2	257.0	259.2	262.0	264.8
170°	245.1	245.6	247.0	248.1	249.5	251.9	254.4	255.4	256.8	258.8	261.3
172.5°	247.0	247.1	248.2	248.8	249.9	251.6	253.7	253.8	254.5	256.1	258.1
175°	249.0	249.0	249.5	250.0	250.0	251.0	252.4	251.9	251.9	253.0	253.9
177.5°	250.0	249.6	250.0	250.0	250.0	250.4	251.2	250.4	250.4	250.8	251.2
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1789.8	1792.0	1793.6	1799.1	1799.7	1804.7	1799.7
5°	1937.9	1947.5	1962.6	1977.7	1979.1	1988.7	1971.5
7.5°	2103.9	2126.2	2140.1	2164.6	2174.2	2180.2	2170.3
10°	2218.4	2238.9	2275.4	2293.3	2311.2	2313.9	2305.7
12.5°	2328.9	2361.6	2390.3	2424.1	2423.4	2447.6	2438.7
15°	2476.1	2509.8	2549.7	2587.5	2601.3	2601.3	2612.3
17.5°	2581.2	2642.9	2684.2	2713.9	2746.2	2751.9	2748.1
20°	2652.1	2718.8	2762.8	2801.3	2823.3	2829.5	2829.5
22.5°	2704.9	2761.7	2804.6	2839.2	2857.4	2864.6	2862.5
25°	2741.5	2790.2	2816.4	2826.7	2831.5	2830.2	2817.1
27.5°	2691.4	2689.2	2672.7	2641.1	2617.4	2602.9	2586.4
30°	2595.7	2560.0	2518.8	2473.4	2414.9	2370.2	2356.5
32.5°	2453.3	2373.0	2303.2	2227.6	2164.7	2120.0	2101.4
35°	2177.8	2050.6	1946.8	1856.1	1790.1	1748.9	1735.1
37.5°	1850.8	1727.8	1599.2	1511.2	1456.6	1414.9	1399.3
40°	1643.0	1508.9	1396.9	1314.4	1258.0	1217.5	1216.8
42.5°	1453.2	1325.3	1219.8	1160.4	1099.6	1072.8	1072.6
45°	1189.9	1087.5	998.2	951.4	915.0	892.9	886.7
47.5°	985.2	900.5	841.0	803.7	774.0	760.0	751.0
50°	870.3	796.1	748.6	716.3	699.8	681.9	680.5
52.5°	774.6	714.6	677.7	651.4	630.5	619.7	620.1
55°	651.0	603.6	577.5	557.5	541.0	532.8	529.3
57.5°	548.5	512.8	493.9	475.5	468.6	462.1	460.3
60°	484.7	460.5	442.7	428.3	417.9	415.9	415.2
62.5°	431.9	406.7	394.3	383.1	375.7	372.5	371.2
65°	356.1	337.5	326.5	317.6	314.9	310.0	309.4
67.5°	287.1	276.0	268.6	262.4	258.7	258.5	258.5
70°	244.7	238.5	232.4	228.9	226.9	225.5	225.5
72.5°	208.4	203.9	198.8	197.0	196.6	195.2	194.7
75°	158.8	153.9	154.6	151.3	148.5	145.1	143.0
77.5°	112.6	109.2	108.5	108.1	105.7	105.3	106.4
80°	87.3	83.9	83.2	83.9	83.2	81.1	81.1
82.5°	66.4	63.5	62.9	62.4	61.7	62.4	61.3
85°	35.7	34.4	34.4	34.4	35.7	35.0	34.4
87.5°	14.6	14.0	14.6	14.1	14.3	13.6	14.1
90°	9.3	9.8	9.8	10.3	10.8	10.3	10.3
92.5°	72.6	57.8	48.0	42.1	39.5	37.8	37.8
95°	287.8	222.0	174.4	150.3	135.1	126.2	119.9
97.5°	509.5	461.4	410.1	374.9	345.3	330.5	320.3
100°	602.2	578.1	541.7	499.0	469.1	454.3	450.4
102.5°	638.3	645.3	630.2	603.9	582.2	566.7	563.5
105°	635.1	683.7	703.9	704.8	700.9	694.0	691.0
107.5°	584.4	653.0	696.7	721.0	732.2	737.1	738.4
110°	545.2	616.4	670.5	705.3	725.9	734.8	739.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	510.6	577.9	631.9	671.5	696.5	708.9	716.0
115°	471.1	528.5	575.7	614.4	643.9	659.6	663.6
117.5°	448.4	493.6	533.6	566.7	591.4	607.3	610.4
120°	438.6	477.9	512.7	540.8	562.4	575.1	580.6
122.5°	432.3	468.0	498.6	522.3	540.8	551.6	557.0
125°	422.4	456.2	483.3	502.9	517.2	526.5	529.4
127.5°	410.7	444.5	470.1	489.9	502.6	510.4	513.3
130°	401.3	434.6	460.7	480.9	493.1	501.0	503.9
132.5°	390.6	423.3	449.3	469.1	482.9	490.3	493.4
135°	374.8	404.7	429.3	448.9	462.7	470.5	473.5
137.5°	359.6	384.8	407.0	425.3	438.9	445.4	448.9
140°	349.7	371.8	392.4	409.7	420.4	427.3	431.3
142.5°	341.5	360.4	378.3	393.5	403.6	409.7	412.3
145°	330.0	344.8	358.5	370.8	379.2	384.1	386.5
147.5°	320.2	332.0	342.9	351.9	359.0	362.7	363.7
150°	314.4	324.2	333.0	340.9	347.2	350.2	350.7
152.5°	308.4	317.5	324.8	331.4	336.7	338.4	338.9
155°	300.1	307.5	313.3	318.3	322.2	323.6	323.6
157.5°	291.9	298.0	302.7	306.5	309.4	310.3	310.3
160°	286.4	291.7	295.7	298.6	301.6	302.0	302.0
162.5°	281.2	285.4	289.0	291.2	294.1	294.6	294.2
165°	273.5	277.0	279.5	281.5	283.4	282.9	282.4
167.5°	267.1	269.8	271.3	272.3	273.5	273.5	273.1
170°	262.8	264.8	266.2	267.2	267.7	267.2	267.2
172.5°	259.2	260.5	261.5	262.1	262.6	262.1	261.3
175°	254.4	255.4	255.4	255.4	256.4	255.4	254.4
177.5°	251.6	251.6	251.9	251.6	251.9	251.2	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0

(END OF REPORT)