

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: P333095-935

Luminaire Tested: **S124RDIW-S1195D470U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333095-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1195D470U935-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 470 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5928.2 lumens
Efficiency: N/A
Efficacy: 113.1 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

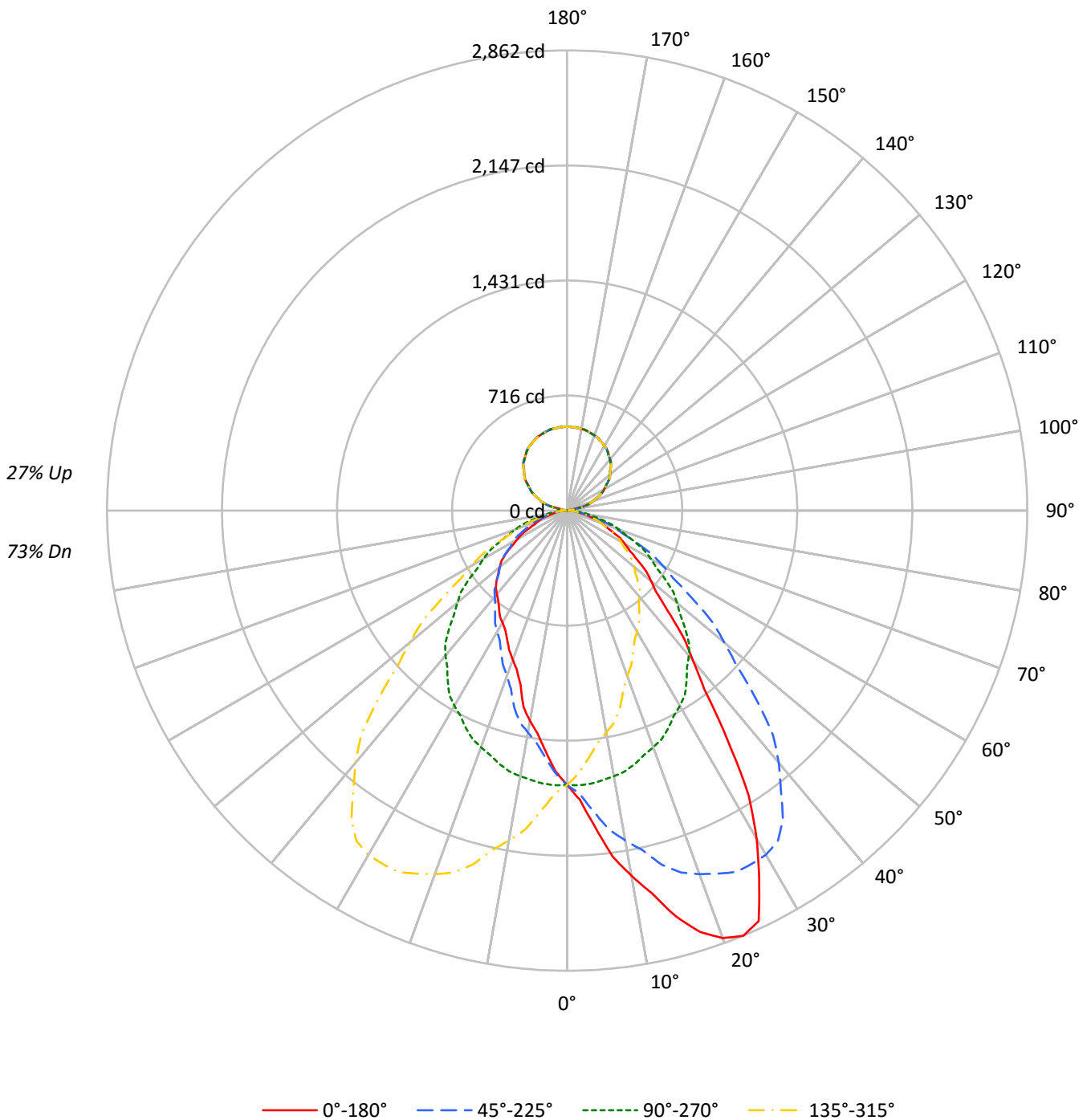
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	77	77	77	77	77	77	73		
1	104	99	96	92	98	94	91	88	85	83	80	77	75	73	69	68	66	66	66	66	66	66	66	63		
2	95	88	82	76	90	83	78	73	76	71	68	68	65	62	62	59	57	57	57	57	57	57	57	54		
3	87	78	70	65	82	74	67	62	67	62	58	61	57	53	55	52	49	49	49	49	49	49	49	46		
4	80	69	61	55	76	66	59	53	60	54	50	55	50	46	50	46	43	43	43	43	43	43	43	40		
5	74	62	54	48	70	59	52	46	54	48	43	50	45	41	45	41	38	38	38	38	38	38	38	35		
6	68	56	48	42	65	54	46	41	49	43	38	45	40	36	41	37	34	34	34	34	34	34	34	31		
7	63	51	43	37	60	49	41	36	45	39	34	41	36	32	38	33	30	30	30	30	30	30	30	28		
8	59	46	39	33	56	45	37	32	41	35	31	38	33	29	35	30	27	27	27	27	27	27	27	25		
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25	25	25	25	25	25	25	23		
10	51	39	32	27	49	38	31	26	35	29	25	32	27	24	30	26	22	22	22	22	22	22	22	21		

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	2.8
10°-20°	498.7	8.4
20°-30°	780.0	13.2
30°-40°	867.1	14.6
40°-50°	769.3	13.0
50°-60°	599.5	10.1
60°-70°	392.5	6.6
70°-80°	193.0	3.3
80°-90°	49.1	0.8
90°-100°	17.8	0.3
100°-110°	113.8	1.9
110°-120°	217.6	3.7
120°-130°	276.3	4.7
130°-140°	295.6	5.0
140°-150°	276.4	4.7
150°-160°	222.9	3.8
160°-170°	143.8	2.4
170°-180°	49.6	0.8
0°-30°	1444.0	24.4
0°-40°	2311.0	39.0
0°-60°	3679.8	62.1
0°-90°	4314.4	72.8
90°-120°	349.2	5.9
90°-150°	1197.5	20.2
90°-180°	1614.0	27.2
0°-180°	5928.2	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°	12	1	12	1	12	7
95°	11	21	11	21	11	9
105°	111	117	111	117	111	97
115°	221	219	221	219	221	219
125°	311	308	311	308	311	277
135°	385	382	385	382	385	296
145°	443	441	443	441	443	277
155°	483	484	483	484	483	223
165°	508	510	508	510	508	143
175°	519	522	519	522	519	49
180°	522	522	522	522	522	



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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°	14.5	13.9	14.4	14.4	14.8	14.2	14.6	15.7	14.5	14.9	14.8
90°	11.7	11.5	11.4	11.2	11.0	10.7	10.2	9.6	9.1	8.6	7.9
92.5°	10.8	10.8	10.7	10.7	10.6	10.3	9.8	9.3	8.8	8.3	7.6
95°	11.3	11.2	11.1	11.0	10.9	10.7	10.2	9.6	9.1	8.6	8.5
97.5°	10.9	10.8	10.8	10.7	10.6	10.5	10.4	10.4	10.3	10.3	20.0
100°	10.9	10.8	10.8	10.7	10.6	11.3	12.7	14.2	15.7	17.1	29.1
102.5°	11.3	11.2	11.2	11.2	11.2	19.1	35.0	50.9	66.8	82.7	84.3
105°	111.2	114.3	117.4	120.5	123.7	124.8	124.1	123.3	122.5	121.7	121.3
107.5°	155.0	154.6	154.3	154.0	153.7	153.3	152.9	152.6	152.1	151.8	151.2
110°	174.0	173.7	173.5	173.2	173.0	172.8	172.6	172.5	172.3	172.1	171.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	193.0	192.8	192.4	192.1	191.7	191.6	191.7	191.7	191.7	191.7	191.5
115°	220.8	220.8	220.8	220.8	220.8	220.8	220.6	220.4	220.2	220.1	220.2
117.5°	249.1	249.2	249.2	249.2	249.3	249.3	249.3	249.3	249.3	249.4	249.3
120°	266.9	267.1	267.3	267.4	267.6	267.6	267.4	267.3	267.1	266.9	267.0
122.5°	284.4	284.6	284.7	284.9	285.1	285.1	285.0	284.9	284.8	284.7	284.6
125°	310.6	310.5	310.4	310.3	310.2	310.0	309.8	309.5	309.3	309.0	309.2
127.5°	333.6	333.7	333.7	333.8	333.9	334.0	334.0	334.1	334.2	334.2	333.8
130°	349.2	349.2	349.2	349.2	349.2	349.2	349.1	349.0	349.0	348.9	348.6
132.5°	363.6	363.7	363.8	363.8	363.9	363.9	363.8	363.7	363.6	363.5	363.2
135°	385.1	385.0	384.8	384.6	384.4	384.3	384.1	383.9	383.7	383.6	383.2
137.5°	403.6	403.6	403.6	403.7	403.7	403.7	403.5	403.3	403.1	402.9	402.5
140°	416.4	416.3	416.2	416.1	416.0	415.9	415.6	415.3	415.1	414.8	414.7
142.5°	427.0	427.0	427.0	426.9	426.9	426.8	426.6	426.4	426.2	426.0	425.9
145°	443.2	443.1	442.9	442.7	442.6	442.5	442.4	442.3	442.2	442.1	442.1
147.5°	456.8	456.7	456.6	456.5	456.4	456.3	456.2	456.2	456.2	456.1	456.2
150°	465.5	465.5	465.4	465.3	465.2	465.1	465.1	465.1	465.1	465.1	465.2
152.5°	473.0	473.0	473.1	473.2	473.2	473.2	473.0	472.9	472.8	472.6	472.8
155°	483.1	483.4	483.6	483.9	484.1	484.1	483.7	483.4	483.0	482.7	482.9
157.5°	491.5	492.0	492.4	492.8	493.3	493.3	492.8	492.4	492.0	491.5	491.8
160°	497.1	497.7	498.2	498.7	499.2	499.2	498.7	498.2	497.7	497.1	497.2
162.5°	501.5	502.0	502.7	503.3	503.9	503.9	503.3	502.8	502.3	501.8	501.9
165°	507.6	508.4	509.2	510.0	510.7	510.8	510.1	509.5	508.8	508.1	508.1
167.5°	512.3	513.2	514.0	514.9	515.7	515.8	515.1	514.3	513.5	512.7	512.8
170°	515.1	515.9	516.8	517.6	518.6	518.7	517.9	517.2	516.5	515.8	515.7
172.5°	516.6	517.5	518.5	519.4	520.4	520.5	519.8	519.1	518.4	517.7	517.6
175°	518.6	519.6	520.6	521.7	522.7	522.9	522.1	521.3	520.6	519.8	519.7
177.5°	519.9	520.6	521.5	522.4	523.1	523.3	522.7	522.2	521.6	521.1	520.9
180°	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7



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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	13.9	14.9	14.7	15.1	17.1	18.6	18.9	17.5	16.0	14.6
90°	7.2	6.5	5.8	5.0	4.0	3.1	2.2	1.2	2.2	3.1	4.0
92.5°	6.9	6.2	5.5	5.2	5.1	5.0	5.0	4.9	5.0	5.0	5.1
95°	8.4	8.4	8.3	9.6	12.7	15.6	18.5	21.4	18.5	15.6	12.7
97.5°	29.6	39.3	49.0	53.0	51.1	49.2	47.4	45.5	47.4	49.2	51.1
100°	41.1	53.0	65.0	70.3	68.7	67.2	65.5	64.0	65.5	67.2	68.7
102.5°	85.8	87.4	88.9	89.2	88.0	86.9	85.8	84.6	85.8	86.9	88.0
105°	120.9	120.5	120.0	119.5	119.0	118.5	118.0	117.4	118.0	118.5	119.0
107.5°	150.6	150.0	149.5	149.0	148.8	148.5	148.3	148.0	148.3	148.5	148.8
110°	171.1	170.5	170.0	169.6	169.4	169.1	168.8	168.6	168.8	169.1	169.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	191.2	191.1	190.8	190.5	189.9	189.5	189.0	188.6	189.0	189.5	189.9
115°	220.2	220.3	220.4	220.3	220.1	219.8	219.6	219.3	219.6	219.8	220.1
117.5°	249.0	248.8	248.7	248.4	248.1	247.7	247.4	247.0	247.4	247.7	248.1
120°	267.1	267.2	267.3	267.1	266.7	266.4	266.0	265.7	266.0	266.4	266.7
122.5°	284.5	284.3	284.2	284.0	283.9	283.6	283.4	283.2	283.4	283.6	283.9
125°	309.4	309.5	309.7	309.6	309.3	308.9	308.6	308.2	308.6	308.9	309.3
127.5°	333.4	332.9	332.6	332.3	332.3	332.2	332.1	332.0	332.1	332.2	332.3
130°	348.4	348.1	347.8	347.7	347.6	347.5	347.3	347.2	347.3	347.5	347.6
132.5°	362.8	362.6	362.2	362.0	361.8	361.6	361.4	361.4	361.4	361.6	361.8
135°	382.9	382.5	382.2	382.0	382.1	382.2	382.3	382.4	382.3	382.2	382.1
137.5°	402.2	401.7	401.4	401.2	401.1	401.1	401.1	401.1	401.1	401.1	401.1
140°	414.5	414.2	414.1	413.9	413.7	413.5	413.4	413.2	413.4	413.5	413.7
142.5°	425.9	425.7	425.6	425.4	425.1	424.8	424.5	424.1	424.5	424.8	425.1
145°	442.1	442.1	442.1	442.0	441.7	441.4	441.2	440.9	441.2	441.4	441.7
147.5°	456.2	456.3	456.4	456.2	455.7	455.2	454.8	454.3	454.8	455.2	455.7
150°	465.3	465.4	465.5	465.4	465.0	464.7	464.3	464.0	464.3	464.7	465.0
152.5°	472.9	473.1	473.2	473.2	472.9	472.6	472.3	472.1	472.3	472.6	472.9
155°	483.2	483.5	483.7	483.8	483.7	483.6	483.5	483.5	483.5	483.6	483.7
157.5°	492.1	492.4	492.7	492.8	492.9	492.9	493.0	493.1	493.0	492.9	492.9
160°	497.3	497.4	497.5	497.7	497.9	498.2	498.4	498.7	498.4	498.2	497.9
162.5°	502.0	502.0	502.1	502.4	502.7	503.0	503.3	503.7	503.3	503.0	502.7
165°	508.1	508.1	508.1	508.2	508.7	509.1	509.5	510.0	509.5	509.1	508.7
167.5°	512.8	512.9	512.9	513.2	513.7	514.1	514.5	515.0	514.5	514.1	513.7
170°	515.7	515.6	515.5	515.7	516.3	516.8	517.3	517.8	517.3	516.8	516.3
172.5°	517.5	517.5	517.4	517.6	518.1	518.7	519.2	519.7	519.2	518.7	518.1
175°	519.6	519.5	519.4	519.6	520.1	520.6	521.2	521.7	521.2	520.6	520.1
177.5°	520.8	520.6	520.6	520.7	521.2	521.7	522.2	522.6	522.2	521.7	521.2
180°	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7



TEST NUMBER: P333095-935

CATALOG NUMBER: S124RDIW-S1195D470U935-4F0-1E-UDD-A

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°	14.7	14.4	14.5	13.5	14.2	14.4	13.9	14.0	14.6	13.7	13.8
90°	5.0	5.8	6.5	7.2	7.9	8.6	9.1	9.6	10.2	10.7	11.0
92.5°	5.2	5.5	6.2	6.9	7.6	8.3	8.8	9.3	9.8	10.3	10.6
95°	9.6	8.3	8.4	8.4	8.5	8.6	9.1	9.6	10.2	10.7	10.9
97.5°	53.0	49.0	39.3	29.6	20.0	10.3	10.3	10.4	10.4	10.5	10.6
100°	70.3	65.0	53.0	41.1	29.1	17.1	15.7	14.2	12.7	11.3	10.6
102.5°	89.2	88.9	87.4	85.8	84.3	82.7	66.8	50.9	35.0	19.1	11.2
105°	119.5	120.0	120.5	120.9	121.3	121.7	122.5	123.3	124.1	124.8	123.7
107.5°	149.0	149.5	150.0	150.6	151.2	151.8	152.1	152.6	152.9	153.3	153.7
110°	169.6	170.0	170.5	171.1	171.6	172.1	172.3	172.5	172.6	172.8	173.0



TEST NUMBER: P333095-935

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	190.5	190.8	191.1	191.2	191.5	191.7	191.7	191.7	191.7	191.6	191.7
115°	220.3	220.4	220.3	220.2	220.2	220.1	220.2	220.4	220.6	220.8	220.8
117.5°	248.4	248.7	248.8	249.0	249.3	249.4	249.3	249.3	249.3	249.3	249.3
120°	267.1	267.3	267.2	267.1	267.0	266.9	267.1	267.3	267.4	267.6	267.6
122.5°	284.0	284.2	284.3	284.5	284.6	284.7	284.8	284.9	285.0	285.1	285.1
125°	309.6	309.7	309.5	309.4	309.2	309.0	309.3	309.5	309.8	310.0	310.2
127.5°	332.3	332.6	332.9	333.4	333.8	334.2	334.2	334.1	334.0	334.0	333.9
130°	347.7	347.8	348.1	348.4	348.6	348.9	349.0	349.0	349.1	349.2	349.2
132.5°	362.0	362.2	362.6	362.8	363.2	363.5	363.6	363.7	363.8	363.9	363.9
135°	382.0	382.2	382.5	382.9	383.2	383.6	383.7	383.9	384.1	384.3	384.4
137.5°	401.2	401.4	401.7	402.2	402.5	402.9	403.1	403.3	403.5	403.7	403.7
140°	413.9	414.1	414.2	414.5	414.7	414.8	415.1	415.3	415.6	415.9	416.0
142.5°	425.4	425.6	425.7	425.9	425.9	426.0	426.2	426.4	426.6	426.8	426.9
145°	442.0	442.1	442.1	442.1	442.1	442.1	442.2	442.3	442.4	442.5	442.6
147.5°	456.2	456.4	456.3	456.2	456.2	456.1	456.2	456.2	456.2	456.3	456.4
150°	465.4	465.5	465.4	465.3	465.2	465.1	465.1	465.1	465.1	465.1	465.2
152.5°	473.2	473.2	473.1	472.9	472.8	472.6	472.8	472.9	473.0	473.2	473.2
155°	483.8	483.7	483.5	483.2	482.9	482.7	483.0	483.4	483.7	484.1	484.1
157.5°	492.8	492.7	492.4	492.1	491.8	491.5	492.0	492.4	492.8	493.3	493.3
160°	497.7	497.5	497.4	497.3	497.2	497.1	497.7	498.2	498.7	499.2	499.2
162.5°	502.4	502.1	502.0	502.0	501.9	501.8	502.3	502.8	503.3	503.9	503.9
165°	508.2	508.1	508.1	508.1	508.1	508.1	508.8	509.5	510.1	510.8	510.7
167.5°	513.2	512.9	512.9	512.8	512.8	512.7	513.5	514.3	515.1	515.8	515.7
170°	515.7	515.5	515.6	515.7	515.7	515.8	516.5	517.2	517.9	518.7	518.6
172.5°	517.6	517.4	517.5	517.5	517.6	517.7	518.4	519.1	519.8	520.5	520.4
175°	519.6	519.4	519.5	519.6	519.7	519.8	520.6	521.3	522.1	522.9	522.7
177.5°	520.7	520.6	520.6	520.8	520.9	521.1	521.6	522.2	522.7	523.3	523.1
180°	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7



TEST NUMBER: P333095-935

CATALOG NUMBER: S124RDIW-S1195D470U935-4F0-1E-UDD-A

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°	14.9	14.4	13.9	14.5	13.9	14.4	14.9	13.8	13.7	14.6	14.0
90°	11.2	11.4	11.5	11.7	11.5	11.4	11.2	11.0	10.7	10.2	9.6
92.5°	10.7	10.7	10.8	10.8	10.8	10.7	10.7	10.6	10.3	9.8	9.3
95°	11.0	11.1	11.2	11.3	11.2	11.1	11.0	10.9	10.7	10.2	9.6
97.5°	10.7	10.8	10.8	10.9	10.8	10.8	10.7	10.6	10.5	10.4	10.4
100°	10.7	10.8	10.8	10.9	10.8	10.8	10.7	10.6	11.3	12.7	14.2
102.5°	11.2	11.2	11.2	11.3	11.2	11.2	11.2	11.2	19.1	35.0	50.9
105°	120.5	117.4	114.3	111.2	114.3	117.4	120.5	123.7	124.8	124.1	123.3
107.5°	154.0	154.3	154.6	155.0	154.6	154.3	154.0	153.7	153.3	152.9	152.6
110°	173.2	173.5	173.7	174.0	173.7	173.5	173.2	173.0	172.8	172.6	172.5



TEST NUMBER: P333095-935

CATALOG NUMBER: S124RDIW-S1195D470U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	192.1	192.4	192.8	193.0	192.8	192.4	192.1	191.7	191.6	191.7	191.7
115°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.6	220.4
117.5°	249.2	249.2	249.2	249.1	249.2	249.2	249.2	249.3	249.3	249.3	249.3
120°	267.4	267.3	267.1	266.9	267.1	267.3	267.4	267.6	267.6	267.4	267.3
122.5°	284.9	284.7	284.6	284.4	284.6	284.7	284.9	285.1	285.1	285.0	284.9
125°	310.3	310.4	310.5	310.6	310.5	310.4	310.3	310.2	310.0	309.8	309.5
127.5°	333.8	333.7	333.7	333.6	333.7	333.7	333.8	333.9	334.0	334.0	334.1
130°	349.2	349.2	349.2	349.2	349.2	349.2	349.2	349.2	349.2	349.1	349.0
132.5°	363.8	363.8	363.7	363.6	363.7	363.8	363.8	363.9	363.9	363.8	363.7
135°	384.6	384.8	385.0	385.1	385.0	384.8	384.6	384.4	384.3	384.1	383.9
137.5°	403.7	403.6	403.6	403.6	403.6	403.6	403.7	403.7	403.7	403.5	403.3
140°	416.1	416.2	416.3	416.4	416.3	416.2	416.1	416.0	415.9	415.6	415.3
142.5°	426.9	427.0	427.0	427.0	427.0	427.0	426.9	426.9	426.8	426.6	426.4
145°	442.7	442.9	443.1	443.2	443.1	442.9	442.7	442.6	442.5	442.4	442.3
147.5°	456.5	456.6	456.7	456.8	456.7	456.6	456.5	456.4	456.3	456.2	456.2
150°	465.3	465.4	465.5	465.5	465.5	465.4	465.3	465.2	465.1	465.1	465.1
152.5°	473.2	473.1	473.0	473.0	473.0	473.1	473.2	473.2	473.2	473.0	472.9
155°	483.9	483.6	483.4	483.1	483.4	483.6	483.9	484.1	484.1	483.7	483.4
157.5°	492.8	492.4	492.0	491.5	492.0	492.4	492.8	493.3	493.3	492.8	492.4
160°	498.7	498.2	497.7	497.1	497.7	498.2	498.7	499.2	499.2	498.7	498.2
162.5°	503.3	502.7	502.0	501.5	502.0	502.7	503.3	503.9	503.9	503.3	502.8
165°	510.0	509.2	508.4	507.6	508.4	509.2	510.0	510.7	510.8	510.1	509.5
167.5°	514.9	514.0	513.2	512.3	513.2	514.0	514.9	515.7	515.8	515.1	514.3
170°	517.6	516.8	515.9	515.1	515.9	516.8	517.6	518.6	518.7	517.9	517.2
172.5°	519.4	518.5	517.5	516.6	517.5	518.5	519.4	520.4	520.5	519.8	519.1
175°	521.7	520.6	519.6	518.6	519.6	520.6	521.7	522.7	522.9	522.1	521.3
177.5°	522.4	521.5	520.6	519.9	520.6	521.5	522.4	523.1	523.3	522.7	522.2
180°	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7



TEST NUMBER: P333095-935

CATALOG NUMBER: S124RDIW-S1195D470U935-4F0-1E-UDD-A

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°	13.9	14.4	14.2	13.5	14.5	14.4	14.7	14.6	16.0	17.5	18.9
90°	9.1	8.6	7.9	7.2	6.5	5.8	5.0	4.0	3.1	2.2	1.2
92.5°	8.8	8.3	7.6	6.9	6.2	5.5	5.2	5.1	5.0	5.0	4.9
95°	9.1	8.6	8.5	8.4	8.4	8.3	9.6	12.7	15.6	18.5	21.4
97.5°	10.3	10.3	20.0	29.6	39.3	49.0	53.0	51.1	49.2	47.4	45.5
100°	15.7	17.1	29.1	41.1	53.0	65.0	70.3	68.7	67.2	65.5	64.0
102.5°	66.8	82.7	84.3	85.8	87.4	88.9	89.2	88.0	86.9	85.8	84.6
105°	122.5	121.7	121.3	120.9	120.5	120.0	119.5	119.0	118.5	118.0	117.4
107.5°	152.1	151.8	151.2	150.6	150.0	149.5	149.0	148.8	148.5	148.3	148.0
110°	172.3	172.1	171.6	171.1	170.5	170.0	169.6	169.4	169.1	168.8	168.6



TEST NUMBER: P333095-935

CATALOG NUMBER: S124RDIW-S1195D470U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	191.7	191.7	191.5	191.2	191.1	190.8	190.5	189.9	189.5	189.0	188.6
115°	220.2	220.1	220.2	220.2	220.3	220.4	220.3	220.1	219.8	219.6	219.3
117.5°	249.3	249.4	249.3	249.0	248.8	248.7	248.4	248.1	247.7	247.4	247.0
120°	267.1	266.9	267.0	267.1	267.2	267.3	267.1	266.7	266.4	266.0	265.7
122.5°	284.8	284.7	284.6	284.5	284.3	284.2	284.0	283.9	283.6	283.4	283.2
125°	309.3	309.0	309.2	309.4	309.5	309.7	309.6	309.3	308.9	308.6	308.2
127.5°	334.2	334.2	333.8	333.4	332.9	332.6	332.3	332.3	332.2	332.1	332.0
130°	349.0	348.9	348.6	348.4	348.1	347.8	347.7	347.6	347.5	347.3	347.2
132.5°	363.6	363.5	363.2	362.8	362.6	362.2	362.0	361.8	361.6	361.4	361.4
135°	383.7	383.6	383.2	382.9	382.5	382.2	382.0	382.1	382.2	382.3	382.4
137.5°	403.1	402.9	402.5	402.2	401.7	401.4	401.2	401.1	401.1	401.1	401.1
140°	415.1	414.8	414.7	414.5	414.2	414.1	413.9	413.7	413.5	413.4	413.2
142.5°	426.2	426.0	425.9	425.9	425.7	425.6	425.4	425.1	424.8	424.5	424.1
145°	442.2	442.1	442.1	442.1	442.1	442.1	442.0	441.7	441.4	441.2	440.9
147.5°	456.2	456.1	456.2	456.2	456.3	456.4	456.2	455.7	455.2	454.8	454.3
150°	465.1	465.1	465.2	465.3	465.4	465.5	465.4	465.0	464.7	464.3	464.0
152.5°	472.8	472.6	472.8	472.9	473.1	473.2	473.2	472.9	472.6	472.3	472.1
155°	483.0	482.7	482.9	483.2	483.5	483.7	483.8	483.7	483.6	483.5	483.5
157.5°	492.0	491.5	491.8	492.1	492.4	492.7	492.8	492.9	492.9	493.0	493.1
160°	497.7	497.1	497.2	497.3	497.4	497.5	497.7	497.9	498.2	498.4	498.7
162.5°	502.3	501.8	501.9	502.0	502.0	502.1	502.4	502.7	503.0	503.3	503.7
165°	508.8	508.1	508.1	508.1	508.1	508.1	508.2	508.7	509.1	509.5	510.0
167.5°	513.5	512.7	512.8	512.8	512.9	512.9	513.2	513.7	514.1	514.5	515.0
170°	516.5	515.8	515.7	515.7	515.6	515.5	515.7	516.3	516.8	517.3	517.8
172.5°	518.4	517.7	517.6	517.5	517.5	517.4	517.6	518.1	518.7	519.2	519.7
175°	520.6	519.8	519.7	519.6	519.5	519.4	519.6	520.1	520.6	521.2	521.7
177.5°	521.6	521.1	520.9	520.8	520.6	520.6	520.7	521.2	521.7	522.2	522.6
180°	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7



TEST NUMBER: P333095-935

CATALOG NUMBER: S124RDIW-S1195D470U935-4F0-1E-UDD-A

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°	18.6	17.1	15.1	14.7	14.9	13.9	14.6	14.8	14.9	14.5	15.7
90°	2.2	3.1	4.0	5.0	5.8	6.5	7.2	7.9	8.6	9.1	9.6
92.5°	5.0	5.0	5.1	5.2	5.5	6.2	6.9	7.6	8.3	8.8	9.3
95°	18.5	15.6	12.7	9.6	8.3	8.4	8.4	8.5	8.6	9.1	9.6
97.5°	47.4	49.2	51.1	53.0	49.0	39.3	29.6	20.0	10.3	10.3	10.4
100°	65.5	67.2	68.7	70.3	65.0	53.0	41.1	29.1	17.1	15.7	14.2
102.5°	85.8	86.9	88.0	89.2	88.9	87.4	85.8	84.3	82.7	66.8	50.9
105°	118.0	118.5	119.0	119.5	120.0	120.5	120.9	121.3	121.7	122.5	123.3
107.5°	148.3	148.5	148.8	149.0	149.5	150.0	150.6	151.2	151.8	152.1	152.6
110°	168.8	169.1	169.4	169.6	170.0	170.5	171.1	171.6	172.1	172.3	172.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	189.0	189.5	189.9	190.5	190.8	191.1	191.2	191.5	191.7	191.7	191.7
115°	219.6	219.8	220.1	220.3	220.4	220.3	220.2	220.2	220.1	220.2	220.4
117.5°	247.4	247.7	248.1	248.4	248.7	248.8	249.0	249.3	249.4	249.3	249.3
120°	266.0	266.4	266.7	267.1	267.3	267.2	267.1	267.0	266.9	267.1	267.3
122.5°	283.4	283.6	283.9	284.0	284.2	284.3	284.5	284.6	284.7	284.8	284.9
125°	308.6	308.9	309.3	309.6	309.7	309.5	309.4	309.2	309.0	309.3	309.5
127.5°	332.1	332.2	332.3	332.3	332.6	332.9	333.4	333.8	334.2	334.2	334.1
130°	347.3	347.5	347.6	347.7	347.8	348.1	348.4	348.6	348.9	349.0	349.0
132.5°	361.4	361.6	361.8	362.0	362.2	362.6	362.8	363.2	363.5	363.6	363.7
135°	382.3	382.2	382.1	382.0	382.2	382.5	382.9	383.2	383.6	383.7	383.9
137.5°	401.1	401.1	401.1	401.2	401.4	401.7	402.2	402.5	402.9	403.1	403.3
140°	413.4	413.5	413.7	413.9	414.1	414.2	414.5	414.7	414.8	415.1	415.3
142.5°	424.5	424.8	425.1	425.4	425.6	425.7	425.9	425.9	426.0	426.2	426.4
145°	441.2	441.4	441.7	442.0	442.1	442.1	442.1	442.1	442.1	442.2	442.3
147.5°	454.8	455.2	455.7	456.2	456.4	456.3	456.2	456.2	456.1	456.2	456.2
150°	464.3	464.7	465.0	465.4	465.5	465.4	465.3	465.2	465.1	465.1	465.1
152.5°	472.3	472.6	472.9	473.2	473.2	473.1	472.9	472.8	472.6	472.8	472.9
155°	483.5	483.6	483.7	483.8	483.7	483.5	483.2	482.9	482.7	483.0	483.4
157.5°	493.0	492.9	492.9	492.8	492.7	492.4	492.1	491.8	491.5	492.0	492.4
160°	498.4	498.2	497.9	497.7	497.5	497.4	497.3	497.2	497.1	497.7	498.2
162.5°	503.3	503.0	502.7	502.4	502.1	502.0	502.0	501.9	501.8	502.3	502.8
165°	509.5	509.1	508.7	508.2	508.1	508.1	508.1	508.1	508.1	508.8	509.5
167.5°	514.5	514.1	513.7	513.2	512.9	512.9	512.8	512.8	512.7	513.5	514.3
170°	517.3	516.8	516.3	515.7	515.5	515.6	515.7	515.7	515.8	516.5	517.2
172.5°	519.2	518.7	518.1	517.6	517.4	517.5	517.5	517.6	517.7	518.4	519.1
175°	521.2	520.6	520.1	519.6	519.4	519.5	519.6	519.7	519.8	520.6	521.3
177.5°	522.2	521.7	521.2	520.7	520.6	520.6	520.8	520.9	521.1	521.6	522.2
180°	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7



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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	14.2	14.8	14.4	14.4	13.9	14.5
90°	10.2	10.7	11.0	11.2	11.4	11.5	11.7
92.5°	9.8	10.3	10.6	10.7	10.7	10.8	10.8
95°	10.2	10.7	10.9	11.0	11.1	11.2	11.3
97.5°	10.4	10.5	10.6	10.7	10.8	10.8	10.9
100°	12.7	11.3	10.6	10.7	10.8	10.8	10.9
102.5°	35.0	19.1	11.2	11.2	11.2	11.2	11.3
105°	124.1	124.8	123.7	120.5	117.4	114.3	111.2
107.5°	152.9	153.3	153.7	154.0	154.3	154.6	155.0
110°	172.6	172.8	173.0	173.2	173.5	173.7	174.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	191.7	191.6	191.7	192.1	192.4	192.8	193.0
115°	220.6	220.8	220.8	220.8	220.8	220.8	220.8
117.5°	249.3	249.3	249.3	249.2	249.2	249.2	249.1
120°	267.4	267.6	267.6	267.4	267.3	267.1	266.9
122.5°	285.0	285.1	285.1	284.9	284.7	284.6	284.4
125°	309.8	310.0	310.2	310.3	310.4	310.5	310.6
127.5°	334.0	334.0	333.9	333.8	333.7	333.7	333.6
130°	349.1	349.2	349.2	349.2	349.2	349.2	349.2
132.5°	363.8	363.9	363.9	363.8	363.8	363.7	363.6
135°	384.1	384.3	384.4	384.6	384.8	385.0	385.1
137.5°	403.5	403.7	403.7	403.7	403.6	403.6	403.6
140°	415.6	415.9	416.0	416.1	416.2	416.3	416.4
142.5°	426.6	426.8	426.9	426.9	427.0	427.0	427.0
145°	442.4	442.5	442.6	442.7	442.9	443.1	443.2
147.5°	456.2	456.3	456.4	456.5	456.6	456.7	456.8
150°	465.1	465.1	465.2	465.3	465.4	465.5	465.5
152.5°	473.0	473.2	473.2	473.2	473.1	473.0	473.0
155°	483.7	484.1	484.1	483.9	483.6	483.4	483.1
157.5°	492.8	493.3	493.3	492.8	492.4	492.0	491.5
160°	498.7	499.2	499.2	498.7	498.2	497.7	497.1
162.5°	503.3	503.9	503.9	503.3	502.7	502.0	501.5
165°	510.1	510.8	510.7	510.0	509.2	508.4	507.6
167.5°	515.1	515.8	515.7	514.9	514.0	513.2	512.3
170°	517.9	518.7	518.6	517.6	516.8	515.9	515.1
172.5°	519.8	520.5	520.4	519.4	518.5	517.5	516.6
175°	522.1	522.9	522.7	521.7	520.6	519.6	518.6
177.5°	522.7	523.3	523.1	522.4	521.5	520.6	519.9
180°	521.7	521.7	521.7	521.7	521.7	521.7	521.7

(END OF REPORT)