

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: P332835-935

Luminaire Tested: **S124DIW-S1195D470U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332835-935
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: S124DIW-S1195D470U935-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6193.8 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

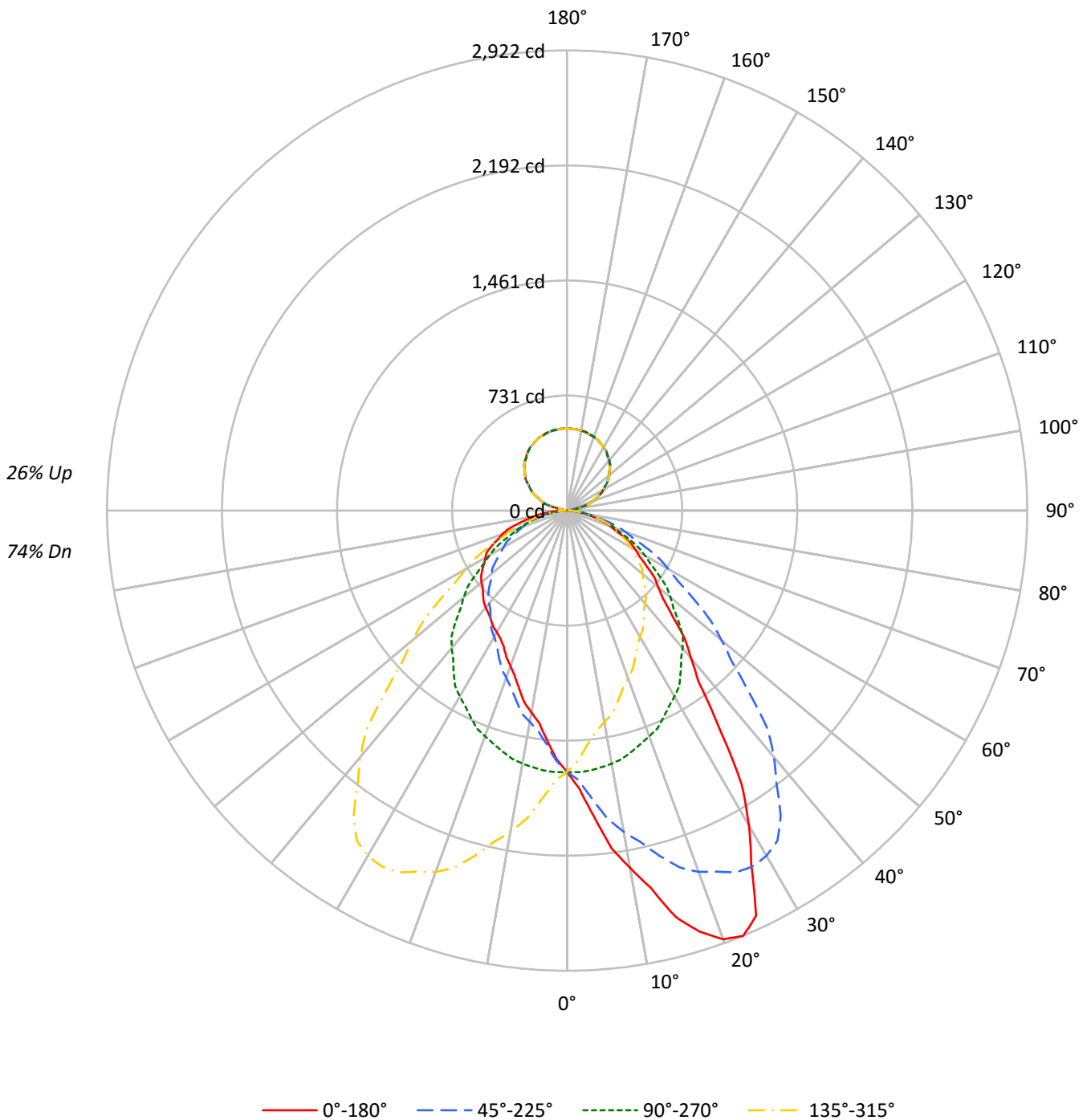
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	103	99	95	92	98	94	91	88	85	83	80	77	75	73	70	68	67	63
2	95	87	81	75	90	83	77	73	75	71	67	68	65	62	62	59	57	53
3	86	77	69	63	82	73	67	61	67	61	57	61	56	53	55	52	49	45
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	49	45	42	39
5	73	61	53	47	69	59	51	45	54	47	42	49	44	40	45	40	37	34
6	68	55	47	41	64	53	45	40	48	42	37	44	39	35	41	36	33	30
7	63	50	42	36	59	48	40	35	44	38	33	41	35	31	37	33	29	27
8	58	46	38	32	55	44	36	31	40	34	30	37	32	28	34	30	26	24
9	54	42	34	29	52	40	33	28	37	31	27	34	29	25	32	27	24	22
10	51	39	31	26	48	37	30	25	34	28	24	32	27	23	29	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13397	13397	13397	13397
5°	15776	13431	11854	13431
10°	18889	13373	10673	13373
15°	22349	13237	9802	13237
20°	24887	13099	9024	13099
25°	25289	12896	8487	12896
30°	21519	12701	8318	12701
35°	16544	12384	8319	12384
40°	12896	12012	8476	12012
45°	10752	11451	8617	11451
50°	9463	10766	8911	10766
55°	8670	9947	9270	9947
60°	8125	9213	9700	9213
65°	7564	8392	10059	8392
70°	6911	7579	10286	7579
75°	6173	6669	10162	6669
80°	5174	5463	9842	5463
85°	3816	3946	9429	3946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	2.6
10°-20°	498.3	8.0
20°-30°	790.2	12.8
30°-40°	879.4	14.2
40°-50°	800.5	12.9
50°-60°	654.1	10.6
60°-70°	467.0	7.5
70°-80°	257.1	4.2
80°-90°	71.7	1.2
90°-100°	17.8	0.3
100°-110°	113.8	1.8
110°-120°	217.6	3.5
120°-130°	276.3	4.5
130°-140°	295.6	4.8
140°-150°	276.4	4.5
150°-160°	222.9	3.6
160°-170°	143.8	2.3
170°-180°	49.6	0.8
0°-30°	1450.2	23.4
0°-40°	2329.6	37.6
0°-60°	3784.2	61.1
0°-90°	4580.0	73.9
90°-120°	349.2	5.6
90°-150°	1197.5	19.3
90°-180°	1614.0	26.1
0°-180°	6193.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1660	1660	1660	1660	1660	
5°	1947	1657	1463	1657	1947	198
15°	2674	1584	1173	1584	2674	756
25°	2839	1448	953	1448	2839	1252
35°	1679	1257	844	1257	1679	1066
45°	942	1003	755	1003	942	742
55°	616	707	659	707	616	556
65°	396	439	527	439	396	392
75°	198	214	326	214	198	210
85°	41	43	102	43	41	51
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°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1766.2	1765.6	1760.1	1759.0	1755.1	1750.2	1749.1	1740.3	1722.7	1714.4	1712.3
5°	1946.8	1960.6	1942.7	1939.2	1937.2	1914.5	1902.8	1889.0	1857.4	1838.9	1824.5
7.5°	2162.4	2164.0	2156.2	2149.9	2132.4	2112.6	2082.9	2051.3	2013.6	1974.4	1944.9
10°	2304.3	2309.8	2300.9	2299.5	2264.4	2242.4	2198.4	2161.3	2118.7	2071.2	2027.9
12.5°	2453.8	2446.2	2441.6	2412.2	2405.7	2365.6	2314.5	2276.2	2210.5	2155.9	2098.3
15°	2674.1	2659.0	2649.4	2608.8	2588.9	2533.1	2478.9	2437.0	2351.0	2269.3	2207.3
17.5°	2803.3	2818.5	2796.2	2779.6	2728.0	2689.0	2633.5	2545.5	2478.2	2376.6	2298.5
20°	2896.8	2898.2	2885.8	2868.7	2828.1	2778.6	2718.1	2621.8	2541.4	2440.4	2333.1
22.5°	2922.1	2922.4	2917.2	2901.1	2870.4	2830.3	2769.2	2689.0	2591.5	2481.7	2374.4
25°	2839.1	2836.3	2842.5	2860.4	2848.7	2836.3	2801.3	2741.5	2650.8	2534.5	2419.1
27.5°	2530.6	2549.5	2584.5	2628.5	2670.8	2703.1	2712.2	2699.9	2643.7	2548.2	2427.2
30°	2308.4	2331.8	2357.9	2401.8	2487.2	2535.9	2589.5	2630.1	2607.5	2531.2	2418.4
32.5°	2064.2	2070.0	2108.8	2158.8	2236.9	2330.8	2415.8	2498.1	2525.5	2485.4	2391.4
35°	1678.7	1688.3	1730.3	1779.8	1875.3	1990.1	2118.0	2232.1	2326.2	2364.0	2315.9
37.5°	1369.9	1397.6	1427.1	1480.3	1564.4	1667.8	1800.7	1948.4	2088.7	2182.7	2198.6
40°	1223.7	1240.8	1262.1	1302.7	1374.2	1475.9	1590.0	1759.1	1908.3	2043.1	2087.1
42.5°	1108.1	1118.2	1131.3	1167.9	1222.4	1323.6	1427.8	1576.6	1726.3	1887.4	1961.1
45°	941.8	952.1	974.0	995.4	1036.6	1106.7	1203.7	1326.0	1476.6	1631.9	1768.1
47.5°	821.7	828.2	841.3	864.1	899.1	945.4	1024.2	1126.4	1266.0	1416.8	1561.9
50°	753.5	758.9	769.2	789.9	816.7	857.9	922.6	1018.0	1127.4	1279.3	1421.6
52.5°	699.6	701.7	709.3	723.3	744.6	779.3	832.3	911.4	1013.0	1148.4	1290.2
55°	616.0	618.7	625.6	635.8	654.4	676.4	717.0	776.1	864.8	982.3	1105.4
57.5°	547.2	549.1	554.9	558.9	574.1	592.0	623.2	665.5	732.6	832.3	942.2
60°	503.2	501.8	508.7	512.1	522.5	537.6	561.6	602.2	660.6	741.1	842.1
62.5°	460.3	458.4	464.2	468.7	474.6	487.5	507.2	539.0	586.3	659.1	746.4
65°	396.0	393.2	396.7	402.2	407.7	414.5	429.0	457.1	495.0	547.2	613.9
67.5°	331.3	334.2	334.8	337.5	340.7	350.1	359.9	379.9	406.6	448.3	504.9
70°	292.8	293.5	296.3	296.3	298.3	306.6	314.9	326.5	352.7	391.2	437.2
72.5°	254.3	257.3	256.1	258.3	259.8	265.4	271.4	282.5	304.8	333.4	372.3
75°	197.9	200.0	200.0	200.7	202.8	204.8	209.7	217.9	233.8	255.0	281.8
77.5°	144.4	144.6	145.6	148.1	148.1	151.4	155.0	161.5	169.4	184.0	200.4
80°	111.3	112.7	112.0	113.4	113.4	116.1	117.5	125.8	129.2	138.9	151.9
82.5°	81.7	83.0	82.9	84.8	85.9	86.4	88.4	91.7	95.1	103.7	109.0
85°	41.2	42.6	41.2	42.6	44.7	45.4	47.4	48.1	50.9	53.0	57.8
87.5°	14.5	16.0	16.0	16.5	17.6	18.1	18.5	17.9	20.0	20.4	22.5
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°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1712.8	1705.1	1699.6	1695.2	1683.1	1675.9	1670.4	1662.8	1654.0	1644.6	1633.1
5°	1810.0	1786.7	1769.4	1743.4	1718.6	1698.0	1676.6	1657.4	1634.0	1608.6	1590.0
7.5°	1912.2	1877.4	1832.8	1794.2	1750.8	1713.0	1679.1	1644.5	1608.4	1573.6	1541.5
10°	1977.0	1932.3	1882.8	1824.5	1769.4	1720.6	1675.2	1631.3	1588.6	1546.0	1509.6
12.5°	2046.9	1991.2	1918.0	1849.8	1788.1	1722.9	1668.1	1614.2	1562.8	1518.0	1475.5
15°	2140.7	2060.2	1975.7	1884.2	1803.1	1726.8	1651.9	1583.8	1526.1	1467.0	1425.7
17.5°	2198.3	2098.8	2002.1	1906.5	1808.4	1712.1	1631.3	1552.8	1480.5	1421.8	1369.8
20°	2236.2	2137.3	2016.9	1921.4	1804.5	1705.6	1612.1	1524.7	1449.1	1386.6	1332.9
22.5°	2269.3	2154.8	2034.5	1908.8	1792.4	1687.4	1585.1	1497.2	1420.0	1354.1	1302.7
25°	2287.1	2155.8	2025.2	1900.1	1768.1	1643.6	1550.8	1447.8	1365.2	1295.8	1240.8
27.5°	2289.1	2148.6	2000.9	1861.8	1725.6	1609.7	1492.5	1400.4	1314.7	1241.4	1188.6
30°	2282.9	2136.6	1977.7	1827.2	1690.4	1564.6	1462.8	1362.5	1275.2	1202.3	1147.3
32.5°	2263.7	2111.3	1948.0	1788.7	1646.9	1523.9	1418.8	1323.4	1238.4	1166.6	1108.8
35°	2208.0	2057.4	1883.5	1717.9	1572.9	1448.5	1353.6	1256.6	1171.4	1103.4	1047.7
37.5°	2121.0	1984.9	1808.1	1636.7	1494.2	1369.2	1275.2	1187.6	1110.8	1041.6	984.6
40°	2045.1	1925.5	1748.2	1581.1	1427.1	1308.2	1220.2	1139.8	1063.4	998.2	943.8
42.5°	1957.7	1853.5	1689.9	1512.9	1364.4	1244.9	1159.2	1086.9	1015.0	954.7	900.4
45°	1801.7	1733.0	1579.1	1415.4	1260.8	1148.0	1066.2	1003.0	942.5	883.4	838.0
47.5°	1622.5	1588.4	1458.7	1303.4	1156.5	1045.4	974.5	916.1	863.0	813.0	772.9
50°	1502.0	1485.6	1373.5	1223.7	1083.4	978.9	907.4	857.2	811.8	767.8	730.0
52.5°	1383.3	1382.7	1281.7	1144.4	1014.7	914.0	843.1	796.2	756.9	721.1	687.2
55°	1201.6	1220.9	1141.9	1019.4	903.3	812.5	748.6	706.7	679.2	649.6	624.2
57.5°	1034.8	1066.8	1001.6	893.8	796.9	713.3	657.6	626.1	596.8	578.9	560.4
60°	926.0	956.2	905.3	814.6	723.2	651.7	598.7	570.6	545.1	532.8	519.7
62.5°	829.1	856.1	818.5	734.3	655.0	586.3	541.6	514.4	497.3	483.8	475.2
65°	690.9	713.6	681.2	620.1	552.0	497.1	460.5	439.3	422.8	417.2	407.7
67.5°	558.4	579.1	561.6	509.6	455.0	413.5	385.0	364.5	354.7	349.9	343.0
70°	479.8	500.4	481.9	436.5	394.6	359.6	332.7	321.1	310.7	308.7	299.0
72.5°	413.3	427.3	408.7	373.2	337.4	307.8	287.1	274.8	269.5	265.8	260.5
75°	310.0	322.4	310.0	282.5	257.1	236.5	218.6	213.8	207.6	205.5	202.1
77.5°	219.5	230.1	220.7	203.5	184.5	168.6	158.9	152.7	151.4	147.8	149.5
80°	167.7	174.6	165.7	153.9	138.9	127.9	121.0	117.5	113.4	112.0	114.8
82.5°	120.5	123.5	118.9	111.1	99.8	92.6	88.0	84.0	83.2	83.4	83.4
85°	62.6	61.9	61.2	54.3	50.9	46.1	43.3	42.6	41.9	43.3	44.7
87.5°	22.3	22.7	22.0	19.7	17.8	16.0	15.2	14.6	15.2	16.0	16.8
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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1627.5	1622.6	1615.5	1605.6	1597.3	1588.5	1586.3	1583.0	1589.6	1584.2	1582.4
5°	1574.3	1559.8	1541.2	1519.9	1507.5	1489.7	1486.3	1479.4	1472.5	1471.8	1464.9
7.5°	1517.7	1496.5	1472.2	1450.4	1430.4	1410.9	1398.1	1395.3	1385.2	1379.2	1372.3
10°	1481.4	1455.3	1427.1	1406.5	1383.1	1362.5	1348.1	1339.8	1332.9	1325.3	1318.5
12.5°	1438.6	1410.7	1387.5	1365.2	1337.5	1321.8	1298.0	1283.8	1282.4	1282.5	1264.6
15°	1388.6	1361.2	1325.3	1293.7	1278.6	1248.4	1235.3	1218.8	1208.5	1198.2	1190.0
17.5°	1331.5	1297.4	1269.4	1233.1	1204.3	1180.2	1163.0	1153.1	1137.6	1123.0	1112.4
20°	1295.8	1259.4	1229.9	1191.3	1159.7	1130.1	1115.7	1102.0	1090.3	1077.9	1066.2
22.5°	1259.5	1221.4	1185.3	1147.9	1118.4	1087.3	1073.3	1054.6	1043.5	1036.6	1024.9
25°	1202.3	1161.1	1119.8	1084.1	1053.9	1026.3	1007.8	993.3	980.9	975.4	967.9
27.5°	1140.1	1099.2	1059.4	1018.7	984.4	964.5	949.6	938.7	931.6	924.3	920.9
30°	1100.6	1058.0	1015.4	977.5	945.9	926.0	912.2	904.7	899.1	895.7	892.3
32.5°	1060.4	1018.4	973.5	939.0	910.7	892.9	882.5	874.9	872.2	871.0	869.8
35°	996.1	953.5	912.2	881.3	854.5	847.6	838.7	834.6	833.2	838.0	840.1
37.5°	933.8	894.2	856.3	826.3	808.7	798.7	795.7	795.7	800.7	804.9	809.9
40°	893.6	855.1	819.4	793.3	776.8	770.6	769.2	772.7	778.2	783.0	788.5
42.5°	854.6	816.7	784.2	759.7	748.2	742.5	743.4	746.8	754.5	760.4	768.7
45°	794.0	762.3	730.7	710.8	701.2	702.6	702.6	708.8	716.3	725.2	734.2
47.5°	736.9	705.1	679.1	662.3	657.3	656.1	660.0	668.0	678.9	689.9	702.4
50°	698.4	668.2	645.5	630.3	624.9	627.0	632.4	640.0	653.1	666.8	679.8
52.5°	659.4	631.9	610.9	596.8	593.0	596.7	602.2	614.2	625.6	640.4	656.3
55°	598.7	575.4	558.9	548.5	547.2	549.2	555.4	568.5	585.0	603.6	618.7
57.5°	538.4	518.8	503.8	496.6	497.3	499.2	509.4	525.0	542.5	562.3	581.9
60°	497.7	479.8	467.4	461.9	462.6	466.7	479.1	493.6	515.6	534.9	555.4
62.5°	459.2	443.5	431.7	426.8	425.8	434.9	446.7	461.7	483.7	505.1	527.4
65°	397.4	385.0	375.3	372.6	374.6	381.5	396.7	416.6	435.1	457.8	481.2
67.5°	336.8	326.7	320.0	321.3	323.8	334.0	346.6	363.8	384.9	408.4	431.4
70°	298.3	288.7	283.2	283.9	288.0	300.4	311.4	328.6	351.3	375.3	394.6
72.5°	258.7	252.4	247.5	250.4	254.5	263.0	276.7	293.9	313.9	336.3	356.6
75°	198.6	198.6	195.9	197.9	204.1	212.4	222.7	240.6	260.5	278.4	294.9
77.5°	147.4	145.9	147.7	150.2	153.7	163.5	175.3	188.0	203.1	220.9	234.5
80°	112.7	113.4	116.8	121.0	122.3	129.9	142.3	153.9	165.7	180.8	193.9
82.5°	84.7	85.4	87.1	92.4	93.8	101.9	109.9	121.6	132.2	142.3	153.2
85°	46.1	46.1	49.5	51.6	55.0	60.5	65.3	72.2	81.8	88.7	99.0
87.5°	18.6	18.8	21.1	22.3	24.1	27.0	28.2	34.4	36.7	39.5	44.5
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



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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: P332835-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1581.4	1580.3	1576.4	1575.9	1576.4	1580.3	1581.4	1582.4	1584.2	1589.6	1583.0
5°	1460.8	1457.3	1455.3	1462.8	1455.3	1457.3	1460.8	1464.9	1471.8	1472.5	1479.4
7.5°	1369.9	1367.2	1361.2	1359.2	1361.2	1367.2	1369.9	1372.3	1379.2	1385.2	1395.3
10°	1311.6	1308.9	1303.4	1302.0	1303.4	1308.9	1311.6	1318.5	1325.3	1332.9	1339.8
12.5°	1255.5	1250.0	1249.0	1250.3	1249.0	1250.0	1255.5	1264.6	1282.5	1282.4	1283.8
15°	1181.0	1178.3	1170.7	1172.8	1170.7	1178.3	1181.0	1190.0	1198.2	1208.5	1218.8
17.5°	1107.6	1104.3	1095.1	1103.2	1095.1	1104.3	1107.6	1112.4	1123.0	1137.6	1153.1
20°	1061.4	1055.9	1051.1	1050.4	1051.1	1055.9	1061.4	1066.2	1077.9	1090.3	1102.0
22.5°	1017.4	1012.4	1012.0	1007.5	1012.0	1012.4	1017.4	1024.9	1036.6	1043.5	1054.6
25°	962.4	957.6	956.2	952.8	956.2	957.6	962.4	967.9	975.4	980.9	993.3
27.5°	920.2	917.8	915.4	916.4	915.4	917.8	920.2	920.9	924.3	931.6	938.7
30°	894.3	893.6	892.3	892.3	892.3	893.6	894.3	892.3	895.7	899.1	904.7
32.5°	872.9	872.8	873.6	873.6	873.6	872.8	872.9	869.8	871.0	872.2	874.9
35°	842.8	844.8	846.2	844.1	846.2	844.8	842.8	840.1	838.0	833.2	834.6
37.5°	815.5	817.6	819.6	821.9	819.6	817.6	815.5	809.9	804.9	800.7	795.7
40°	794.7	799.5	800.8	804.3	800.8	799.5	794.7	788.5	783.0	778.2	772.7
42.5°	774.9	780.2	783.8	784.5	783.8	780.2	774.9	768.7	760.4	754.5	746.8
45°	744.5	750.0	754.8	754.8	754.8	750.0	744.5	734.2	725.2	716.3	708.8
47.5°	713.0	721.0	725.8	727.0	725.8	721.0	713.0	702.4	689.9	678.9	668.0
50°	691.6	701.2	706.0	709.5	706.0	701.2	691.6	679.8	666.8	653.1	640.0
52.5°	670.6	680.3	686.7	688.5	686.7	680.3	670.6	656.3	640.4	625.6	614.2
55°	634.5	648.2	655.8	658.6	655.8	648.2	634.5	618.7	603.6	585.0	568.5
57.5°	600.4	613.0	621.8	623.9	621.8	613.0	600.4	581.9	562.3	542.5	525.0
60°	574.0	587.7	598.7	600.8	598.7	587.7	574.0	555.4	534.9	515.6	493.6
62.5°	547.1	561.4	571.3	576.6	571.3	561.4	547.1	527.4	505.1	483.7	461.7
65°	500.4	514.9	524.5	526.6	524.5	514.9	500.4	481.2	457.8	435.1	416.6
67.5°	449.6	464.0	470.4	474.3	470.4	464.0	449.6	431.4	408.4	384.9	363.8
70°	413.8	425.5	432.4	435.8	432.4	425.5	413.8	394.6	375.3	351.3	328.6
72.5°	373.2	385.4	393.4	394.0	393.4	385.4	373.2	356.6	336.3	313.9	293.9
75°	310.7	321.8	325.8	325.8	325.8	321.8	310.7	294.9	278.4	260.5	240.6
77.5°	246.0	251.6	256.8	258.0	256.8	251.6	246.0	234.5	220.9	203.1	188.0
80°	204.1	207.6	211.7	211.7	211.7	207.6	204.1	193.9	180.8	165.7	153.9
82.5°	161.3	164.2	168.3	167.7	168.3	164.2	161.3	153.2	142.3	132.2	121.6
85°	97.6	103.8	103.1	101.8	103.1	103.8	97.6	99.0	88.7	81.8	72.2
87.5°	46.2	46.8	48.5	49.6	48.5	46.8	46.2	44.5	39.5	36.7	34.4
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: P332835-935

CATALOG NUMBER: S124DIW-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: P332835-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1586.3	1588.5	1597.3	1605.6	1615.5	1622.6	1627.5	1633.1	1644.6	1654.0	1662.8
5°	1486.3	1489.7	1507.5	1519.9	1541.2	1559.8	1574.3	1590.0	1608.6	1634.0	1657.4
7.5°	1398.1	1410.9	1430.4	1450.4	1472.2	1496.5	1517.7	1541.5	1573.6	1608.4	1644.5
10°	1348.1	1362.5	1383.1	1406.5	1427.1	1455.3	1481.4	1509.6	1546.0	1588.6	1631.3
12.5°	1298.0	1321.8	1337.5	1365.2	1387.5	1410.7	1438.6	1475.5	1518.0	1562.8	1614.2
15°	1235.3	1248.4	1278.6	1293.7	1325.3	1361.2	1388.6	1425.7	1467.0	1526.1	1583.8
17.5°	1163.0	1180.2	1204.3	1233.1	1269.4	1297.4	1331.5	1369.8	1421.8	1480.5	1552.8
20°	1115.7	1130.1	1159.7	1191.3	1229.9	1259.4	1295.8	1332.9	1386.6	1449.1	1524.7
22.5°	1073.3	1087.3	1118.4	1147.9	1185.3	1221.4	1259.5	1302.7	1354.1	1420.0	1497.2
25°	1007.8	1026.3	1053.9	1084.1	1119.8	1161.1	1202.3	1240.8	1295.8	1365.2	1447.8
27.5°	949.6	964.5	984.4	1018.7	1059.4	1099.2	1140.1	1188.6	1241.4	1314.7	1400.4
30°	912.2	926.0	945.9	977.5	1015.4	1058.0	1100.6	1147.3	1202.3	1275.2	1362.5
32.5°	882.5	892.9	910.7	939.0	973.5	1018.4	1060.4	1108.8	1166.6	1238.4	1323.4
35°	838.7	847.6	854.5	881.3	912.2	953.5	996.1	1047.7	1103.4	1171.4	1256.6
37.5°	795.7	798.7	808.7	826.3	856.3	894.2	933.8	984.6	1041.6	1110.8	1187.6
40°	769.2	770.6	776.8	793.3	819.4	855.1	893.6	943.8	998.2	1063.4	1139.8
42.5°	743.4	742.5	748.2	759.7	784.2	816.7	854.6	900.4	954.7	1015.0	1086.9
45°	702.6	702.6	701.2	710.8	730.7	762.3	794.0	838.0	883.4	942.5	1003.0
47.5°	660.0	656.1	657.3	662.3	679.1	705.1	736.9	772.9	813.0	863.0	916.1
50°	632.4	627.0	624.9	630.3	645.5	668.2	698.4	730.0	767.8	811.8	857.2
52.5°	602.2	596.7	593.0	596.8	610.9	631.9	659.4	687.2	721.1	756.9	796.2
55°	555.4	549.2	547.2	548.5	558.9	575.4	598.7	624.2	649.6	679.2	706.7
57.5°	509.4	499.2	497.3	496.6	503.8	518.8	538.4	560.4	578.9	596.8	626.1
60°	479.1	466.7	462.6	461.9	467.4	479.8	497.7	519.7	532.8	545.1	570.6
62.5°	446.7	434.9	425.8	426.8	431.7	443.5	459.2	475.2	483.8	497.3	514.4
65°	396.7	381.5	374.6	372.6	375.3	385.0	397.4	407.7	417.2	422.8	439.3
67.5°	346.6	334.0	323.8	321.3	320.0	326.7	336.8	343.0	349.9	354.7	364.5
70°	311.4	300.4	288.0	283.9	283.2	288.7	298.3	299.0	308.7	310.7	321.1
72.5°	276.7	263.0	254.5	250.4	247.5	252.4	258.7	260.5	265.8	269.5	274.8
75°	222.7	212.4	204.1	197.9	195.9	198.6	198.6	202.1	205.5	207.6	213.8
77.5°	175.3	163.5	153.7	150.2	147.7	145.9	147.4	149.5	147.8	151.4	152.7
80°	142.3	129.9	122.3	121.0	116.8	113.4	112.7	114.8	112.0	113.4	117.5
82.5°	109.9	101.9	93.8	92.4	87.1	85.4	84.7	83.4	83.4	83.2	84.0
85°	65.3	60.5	55.0	51.6	49.5	46.1	46.1	44.7	43.3	41.9	42.6
87.5°	28.2	27.0	24.1	22.3	21.1	18.8	18.6	16.8	16.0	15.2	14.6
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



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CATALOG NUMBER: S124DIW-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: P332835-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1670.4	1675.9	1683.1	1695.2	1699.6	1705.1	1712.8	1712.3	1714.4	1722.7	1740.3
5°	1676.6	1698.0	1718.6	1743.4	1769.4	1786.7	1810.0	1824.5	1838.9	1857.4	1889.0
7.5°	1679.1	1713.0	1750.8	1794.2	1832.8	1877.4	1912.2	1944.9	1974.4	2013.6	2051.3
10°	1675.2	1720.6	1769.4	1824.5	1882.8	1932.3	1977.0	2027.9	2071.2	2118.7	2161.3
12.5°	1668.1	1722.9	1788.1	1849.8	1918.0	1991.2	2046.9	2098.3	2155.9	2210.5	2276.2
15°	1651.9	1726.8	1803.1	1884.2	1975.7	2060.2	2140.7	2207.3	2269.3	2351.0	2437.0
17.5°	1631.3	1712.1	1808.4	1906.5	2002.1	2098.8	2198.3	2298.5	2376.6	2478.2	2545.5
20°	1612.1	1705.6	1804.5	1921.4	2016.9	2137.3	2236.2	2333.1	2440.4	2541.4	2621.8
22.5°	1585.1	1687.4	1792.4	1908.8	2034.5	2154.8	2269.3	2374.4	2481.7	2591.5	2689.0
25°	1550.8	1643.6	1768.1	1900.1	2025.2	2155.8	2287.1	2419.1	2534.5	2650.8	2741.5
27.5°	1492.5	1609.7	1725.6	1861.8	2000.9	2148.6	2289.1	2427.2	2548.2	2643.7	2699.9
30°	1462.8	1564.6	1690.4	1827.2	1977.7	2136.6	2282.9	2418.4	2531.2	2607.5	2630.1
32.5°	1418.8	1523.9	1646.9	1788.7	1948.0	2111.3	2263.7	2391.4	2485.4	2525.5	2498.1
35°	1353.6	1448.5	1572.9	1717.9	1883.5	2057.4	2208.0	2315.9	2364.0	2326.2	2232.1
37.5°	1275.2	1369.2	1494.2	1636.7	1808.1	1984.9	2121.0	2198.6	2182.7	2088.7	1948.4
40°	1220.2	1308.2	1427.1	1581.1	1748.2	1925.5	2045.1	2087.1	2043.1	1908.3	1759.1
42.5°	1159.2	1244.9	1364.4	1512.9	1689.9	1853.5	1957.7	1961.1	1887.4	1726.3	1576.6
45°	1066.2	1148.0	1260.8	1415.4	1579.1	1733.0	1801.7	1768.1	1631.9	1476.6	1326.0
47.5°	974.5	1045.4	1156.5	1303.4	1458.7	1588.4	1622.5	1561.9	1416.8	1266.0	1126.4
50°	907.4	978.9	1083.4	1223.7	1373.5	1485.6	1502.0	1421.6	1279.3	1127.4	1018.0
52.5°	843.1	914.0	1014.7	1144.4	1281.7	1382.7	1383.3	1290.2	1148.4	1013.0	911.4
55°	748.6	812.5	903.3	1019.4	1141.9	1220.9	1201.6	1105.4	982.3	864.8	776.1
57.5°	657.6	713.3	796.9	893.8	1001.6	1066.8	1034.8	942.2	832.3	732.6	665.5
60°	598.7	651.7	723.2	814.6	905.3	956.2	926.0	842.1	741.1	660.6	602.2
62.5°	541.6	586.3	655.0	734.3	818.5	856.1	829.1	746.4	659.1	586.3	539.0
65°	460.5	497.1	552.0	620.1	681.2	713.6	690.9	613.9	547.2	495.0	457.1
67.5°	385.0	413.5	455.0	509.6	561.6	579.1	558.4	504.9	448.3	406.6	379.9
70°	332.7	359.6	394.6	436.5	481.9	500.4	479.8	437.2	391.2	352.7	326.5
72.5°	287.1	307.8	337.4	373.2	408.7	427.3	413.3	372.3	333.4	304.8	282.5
75°	218.6	236.5	257.1	282.5	310.0	322.4	310.0	281.8	255.0	233.8	217.9
77.5°	158.9	168.6	184.5	203.5	220.7	230.1	219.5	200.4	184.0	169.4	161.5
80°	121.0	127.9	138.9	153.9	165.7	174.6	167.7	151.9	138.9	129.2	125.8
82.5°	88.0	92.6	99.8	111.1	118.9	123.5	120.5	109.0	103.7	95.1	91.7
85°	43.3	46.1	50.9	54.3	61.2	61.9	62.6	57.8	53.0	50.9	48.1
87.5°	15.2	16.0	17.8	19.7	22.0	22.7	22.3	22.5	20.4	20.0	17.9
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°	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5	1659.5
2.5°	1749.1	1750.2	1755.1	1759.0	1760.1	1765.6	1766.2
5°	1902.8	1914.5	1937.2	1939.2	1942.7	1960.6	1946.8
7.5°	2082.9	2112.6	2132.4	2149.9	2156.2	2164.0	2162.4
10°	2198.4	2242.4	2264.4	2299.5	2300.9	2309.8	2304.3
12.5°	2314.5	2365.6	2405.7	2412.2	2441.6	2446.2	2453.8
15°	2478.9	2533.1	2588.9	2608.8	2649.4	2659.0	2674.1
17.5°	2633.5	2689.0	2728.0	2779.6	2796.2	2818.5	2803.3
20°	2718.1	2778.6	2828.1	2868.7	2885.8	2898.2	2896.8
22.5°	2769.2	2830.3	2870.4	2901.1	2917.2	2922.4	2922.1
25°	2801.3	2836.3	2848.7	2860.4	2842.5	2836.3	2839.1
27.5°	2712.2	2703.1	2670.8	2628.5	2584.5	2549.5	2530.6
30°	2589.5	2535.9	2487.2	2401.8	2357.9	2331.8	2308.4
32.5°	2415.8	2330.8	2236.9	2158.8	2108.8	2070.0	2064.2
35°	2118.0	1990.1	1875.3	1779.8	1730.3	1688.3	1678.7
37.5°	1800.7	1667.8	1564.4	1480.3	1427.1	1397.6	1369.9
40°	1590.0	1475.9	1374.2	1302.7	1262.1	1240.8	1223.7
42.5°	1427.8	1323.6	1222.4	1167.9	1131.3	1118.2	1108.1
45°	1203.7	1106.7	1036.6	995.4	974.0	952.1	941.8
47.5°	1024.2	945.4	899.1	864.1	841.3	828.2	821.7
50°	922.6	857.9	816.7	789.9	769.2	758.9	753.5
52.5°	832.3	779.3	744.6	723.3	709.3	701.7	699.6
55°	717.0	676.4	654.4	635.8	625.6	618.7	616.0
57.5°	623.2	592.0	574.1	558.9	554.9	549.1	547.2
60°	561.6	537.6	522.5	512.1	508.7	501.8	503.2
62.5°	507.2	487.5	474.6	468.7	464.2	458.4	460.3
65°	429.0	414.5	407.7	402.2	396.7	393.2	396.0
67.5°	359.9	350.1	340.7	337.5	334.8	334.2	331.3
70°	314.9	306.6	298.3	296.3	296.3	293.5	292.8
72.5°	271.4	265.4	259.8	258.3	256.1	257.3	254.3
75°	209.7	204.8	202.8	200.7	200.0	200.0	197.9
77.5°	155.0	151.4	148.1	148.1	145.6	144.6	144.4
80°	117.5	116.1	113.4	113.4	112.0	112.7	111.3
82.5°	88.4	86.4	85.9	84.8	82.9	83.0	81.7
85°	47.4	45.4	44.7	42.6	41.2	42.6	41.2
87.5°	18.5	18.1	17.6	16.5	16.0	16.0	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)