

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: P333095-840

Luminaire Tested: **S124RDIW-S1195D470U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333095-840  
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-S1195D470U840-4F0-1E-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**

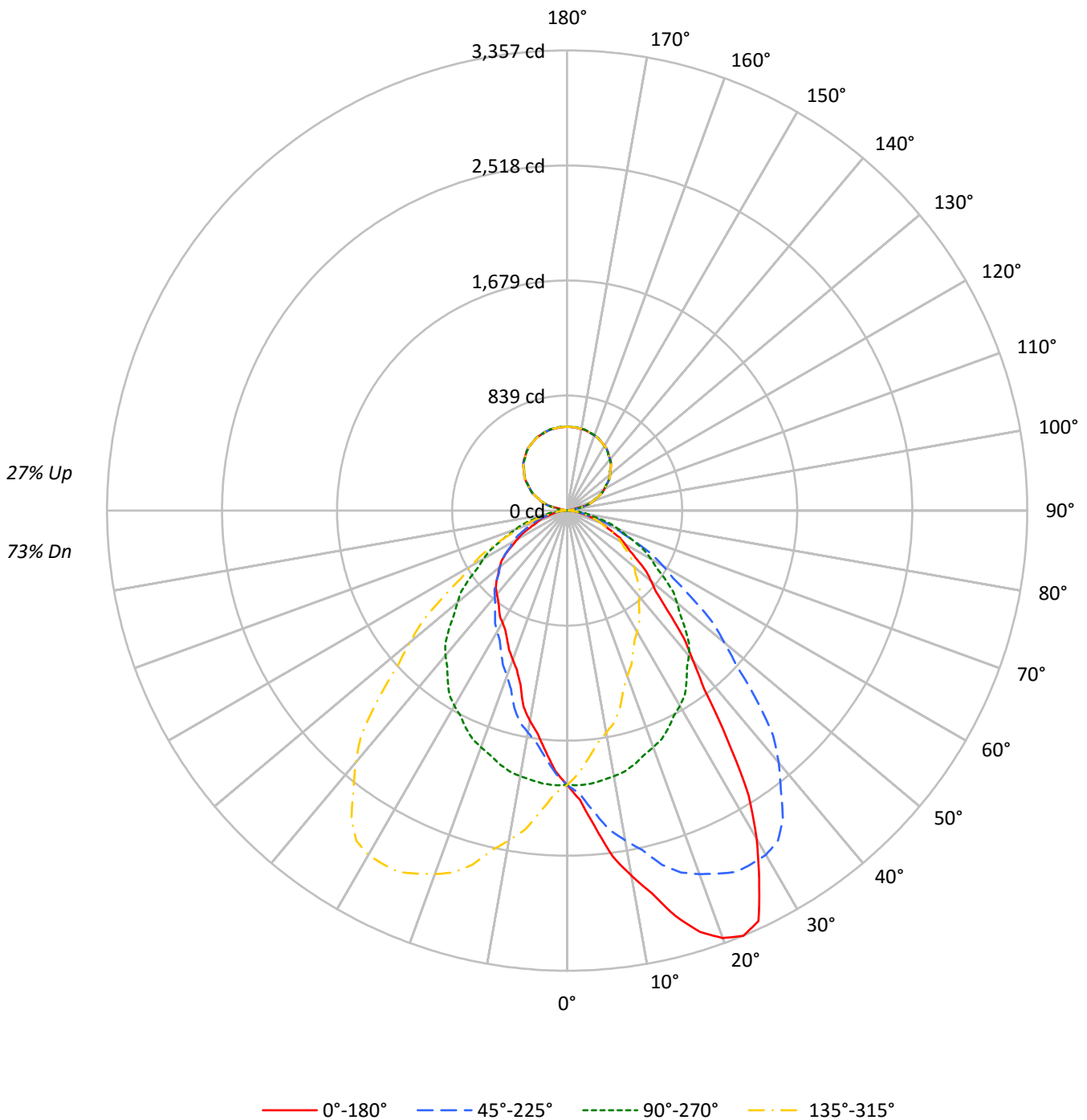
Lumens per Lamp: N/A  
Luminaire Lumens: 6953.2 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 52.4  
Input Voltage (V): 120  
Input Current (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	0
RCR																		
0	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	104	99	96	92	98	94	91	88	85	83	80	77	75	73	69	68	66	63
2	95	88	82	76	90	83	78	73	76	71	68	68	65	62	62	59	57	54
3	87	78	70	65	82	74	67	62	67	62	58	61	57	53	55	52	49	46
4	80	69	61	55	76	66	59	53	60	54	50	55	50	46	50	46	43	40
5	74	62	54	48	70	59	52	46	54	48	43	50	45	41	45	41	38	35
6	68	56	48	42	65	54	46	41	49	43	38	45	40	36	41	37	34	31
7	63	51	43	37	60	49	41	36	45	39	34	41	36	32	38	33	30	28
8	59	46	39	33	56	45	37	32	41	35	31	38	33	29	35	30	27	25
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25	23
10	51	39	32	27	49	38	31	26	35	29	25	32	27	24	30	26	22	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	16156	16156	16156	16156
5°	18739	16204	14323	16204
10°	22168	16133	12782	16133
15°	25607	15984	10984	15984
20°	28511	15779	9933	15779
25°	29432	15577	9222	15577
30°	25765	15333	8793	15333
35°	20056	14970	8535	14970
40°	15039	14556	8395	14556
45°	11875	13891	8322	13891
50°	10025	13123	8081	13123
55°	8739	12279	7648	12279
60°	7863	11404	6770	11404
65°	6930	10457	5822	10457
70°	6243	9477	5254	9477
75°	5231	8400	4476	8400
80°	4421	7159	4198	7159
85°	3733	5604	3733	5604



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.9	2.8
10°-20°	584.9	8.4
20°-30°	914.8	13.2
30°-40°	1017.0	14.6
40°-50°	902.3	13.0
50°-60°	703.1	10.1
60°-70°	460.3	6.6
70°-80°	226.4	3.3
80°-90°	57.6	0.8
90°-100°	20.9	0.3
100°-110°	133.4	1.9
110°-120°	255.3	3.7
120°-130°	324.0	4.7
130°-140°	346.7	5.0
140°-150°	324.2	4.7
150°-160°	261.4	3.8
160°-170°	168.6	2.4
170°-180°	58.1	0.8
0°-30°	1693.6	24.4
0°-40°	2710.6	39.0
0°-60°	4316.0	62.1
0°-90°	5060.3	72.8
90°-120°	409.6	5.9
90°-150°	1404.6	20.2
90°-180°	1893.0	27.2
0°-180°	6953.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2001	2001	2001	2001	2001	
5°	2312	2000	1767	2000	2312	234
15°	3064	1912	1314	1912	3064	871
25°	3304	1749	1035	1749	3304	1466
35°	2035	1519	866	1519	2035	1276
45°	1040	1217	729	1217	1040	824
55°	621	872	543	872	621	565
65°	363	547	305	547	363	365
75°	168	269	144	269	168	185
85°	40	60	40	60	40	46
90°	14	1	14	1	14	8
95°	13	25	13	25	13	11
105°	130	138	130	138	130	114
115°	259	257	259	257	259	256
125°	364	362	364	362	364	324
135°	452	448	452	448	452	348
145°	520	517	520	517	520	325
155°	567	567	567	567	567	261
165°	595	598	595	598	595	168
175°	608	612	608	612	608	58
180°	612	612	612	612	612	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	2110.8	2116.7	2110.8	2110.2	2103.8	2101.8	2099.2	2090.8	2075.4	2066.4	2068.3
5°	2312.4	2332.6	2321.3	2319.7	2302.0	2284.2	2272.9	2247.2	2219.7	2201.2	2185.9
7.5°	2545.6	2557.2	2550.1	2538.8	2510.1	2493.9	2467.7	2433.7	2384.5	2346.9	2312.6
10°	2704.3	2713.9	2710.8	2689.8	2668.8	2626.1	2601.9	2554.4	2492.2	2443.1	2397.1
12.5°	2860.3	2870.7	2842.4	2843.3	2803.6	2770.0	2731.6	2671.7	2600.0	2536.6	2479.0
15°	3063.9	3051.0	3051.0	3034.8	2990.5	2943.8	2904.3	2841.4	2751.1	2675.2	2595.5
17.5°	3223.2	3227.7	3221.1	3183.1	3148.3	3099.9	3027.5	2954.1	2870.2	2768.4	2686.8
20°	3318.7	3318.7	3311.4	3285.6	3240.5	3188.9	3110.7	3030.8	2924.4	2822.0	2730.1
22.5°	3357.4	3359.9	3351.4	3330.1	3289.5	3239.1	3172.6	3091.5	2981.8	2866.5	2752.7
25°	3304.2	3319.5	3321.0	3315.5	3303.4	3272.7	3215.5	3132.4	3034.0	2909.1	2786.5
27.5°	3033.5	3052.9	3069.9	3097.8	3134.8	3154.2	3156.7	3114.5	3028.7	2908.4	2785.1
30°	2763.9	2780.1	2832.5	2901.0	2954.3	3002.6	3044.5	3055.9	3007.5	2899.4	2769.6
32.5°	2464.7	2486.6	2539.0	2612.7	2701.4	2783.3	2877.5	2925.5	2924.3	2859.4	2739.3
35°	2035.1	2051.2	2099.6	2177.0	2283.4	2405.2	2554.4	2670.4	2749.5	2743.8	2670.4
37.5°	1641.2	1659.5	1708.4	1772.5	1875.7	2026.5	2170.8	2330.8	2476.9	2559.0	2534.5
40°	1427.1	1427.9	1475.5	1541.7	1638.4	1769.8	1927.0	2104.4	2267.2	2400.3	2426.1
42.5°	1258.1	1258.3	1289.7	1361.0	1430.7	1554.4	1704.5	1880.6	2071.2	2224.8	2293.2
45°	1040.1	1047.3	1073.2	1115.9	1170.7	1275.6	1395.6	1559.3	1773.0	1955.2	2068.9
47.5°	880.8	891.4	907.9	942.7	986.4	1056.2	1155.6	1302.6	1476.4	1676.9	1838.7
50°	798.2	799.8	820.8	840.1	878.1	933.7	1020.8	1143.3	1302.9	1495.6	1675.5
52.5°	727.3	726.9	739.5	764.1	794.9	838.2	908.5	1020.1	1161.6	1334.4	1520.0
55°	620.9	624.9	634.5	653.9	677.3	707.9	763.6	847.4	958.7	1106.2	1274.8
57.5°	539.9	542.0	549.6	557.7	579.3	601.5	643.3	701.5	795.4	916.1	1073.2
60°	487.0	487.8	490.2	502.3	519.3	540.2	568.5	617.6	696.6	807.1	931.3
62.5°	435.4	436.9	440.6	449.4	462.5	477.0	506.5	546.0	611.5	705.8	817.7
65°	362.8	363.7	369.3	372.5	382.9	395.9	417.7	444.2	489.4	568.5	653.1
67.5°	303.2	303.2	303.5	307.8	315.1	323.7	336.7	358.0	392.0	440.6	515.2
70°	264.5	264.5	266.1	268.5	272.6	279.7	287.0	303.2	328.2	367.7	425.0
72.5°	228.3	228.9	230.6	231.1	233.2	239.1	244.5	254.8	273.4	303.2	349.4
75°	167.7	170.2	174.2	177.4	181.4	180.6	186.2	192.7	198.3	216.1	242.7
77.5°	124.8	123.5	124.0	126.7	127.2	128.1	132.1	137.0	141.3	149.7	159.2
80°	95.1	95.1	97.6	98.4	97.6	98.4	102.4	104.8	106.4	109.7	118.6
82.5°	71.9	73.2	72.4	73.2	73.7	74.5	77.9	78.4	80.0	81.3	85.0
85°	40.3	41.1	41.9	40.3	40.3	40.3	41.9	42.7	44.3	43.5	45.1
87.5°	17.0	16.3	16.9	16.9	17.4	16.7	17.2	18.4	17.0	17.5	17.4
90°	13.7	13.5	13.3	13.1	12.9	12.5	11.9	11.3	10.7	10.1	9.3
92.5°	12.6	12.6	12.5	12.5	12.4	12.1	11.5	10.9	10.3	9.7	8.9
95°	13.2	13.1	13.0	12.9	12.8	12.5	11.9	11.3	10.7	10.1	10.0
97.5°	12.8	12.7	12.6	12.5	12.4	12.3	12.2	12.2	12.1	12.1	23.4
100°	12.8	12.7	12.6	12.5	12.4	13.2	14.9	16.7	18.4	20.1	34.1
102.5°	13.2	13.1	13.1	13.1	13.1	22.4	41.1	59.7	78.4	97.0	98.9
105°	130.5	134.1	137.7	141.4	145.1	146.4	145.5	144.6	143.7	142.8	142.3
107.5°	181.8	181.4	181.0	180.7	180.3	179.9	179.4	178.9	178.4	178.0	177.3
110°	204.1	203.8	203.5	203.2	202.9	202.7	202.5	202.3	202.1	201.9	201.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	226.4	226.1	225.7	225.3	224.9	224.7	224.8	224.8	224.9	224.9	224.6
115°	259.0	259.0	259.0	259.0	259.0	258.9	258.7	258.5	258.3	258.1	258.2
117.5°	292.2	292.3	292.3	292.3	292.4	292.4	292.5	292.5	292.5	292.6	292.4
120°	313.1	313.3	313.5	313.7	313.9	313.9	313.7	313.5	313.3	313.1	313.2
122.5°	333.6	333.8	334.0	334.2	334.4	334.4	334.3	334.2	334.1	334.0	333.8
125°	364.3	364.2	364.1	364.0	363.9	363.7	363.3	363.0	362.7	362.4	362.6
127.5°	391.3	391.4	391.4	391.5	391.6	391.7	391.7	391.8	391.9	391.9	391.5
130°	409.6	409.6	409.6	409.6	409.6	409.6	409.5	409.4	409.3	409.2	408.9
132.5°	426.5	426.6	426.7	426.7	426.8	426.8	426.7	426.6	426.5	426.4	426.0
135°	451.7	451.5	451.3	451.1	450.9	450.7	450.5	450.3	450.1	449.9	449.5
137.5°	473.3	473.4	473.4	473.5	473.5	473.5	473.2	473.0	472.8	472.6	472.1
140°	488.4	488.3	488.2	488.1	488.0	487.8	487.5	487.2	486.9	486.6	486.4
142.5°	500.8	500.8	500.8	500.7	500.7	500.6	500.4	500.1	499.9	499.7	499.6
145°	519.9	519.7	519.5	519.3	519.1	519.0	518.9	518.8	518.7	518.6	518.6
147.5°	535.7	535.6	535.5	535.4	535.3	535.2	535.1	535.1	535.0	534.9	535.0
150°	546.0	545.9	545.8	545.7	545.6	545.5	545.5	545.5	545.5	545.5	545.6
152.5°	554.8	554.8	554.9	555.0	555.0	555.0	554.8	554.6	554.5	554.3	554.5
155°	566.6	566.9	567.2	567.5	567.8	567.7	567.3	566.9	566.5	566.1	566.4
157.5°	576.5	577.0	577.5	578.0	578.6	578.6	578.0	577.5	577.0	576.5	576.8
160°	583.1	583.7	584.3	584.9	585.5	585.5	584.9	584.3	583.7	583.1	583.2
162.5°	588.2	588.9	589.6	590.3	591.0	591.0	590.4	589.8	589.2	588.5	588.7
165°	595.4	596.3	597.2	598.1	599.1	599.2	598.3	597.5	596.7	595.9	595.9
167.5°	600.9	601.9	602.9	603.9	604.9	605.0	604.1	603.2	602.3	601.4	601.5
170°	604.1	605.1	606.1	607.1	608.2	608.3	607.4	606.6	605.8	605.0	604.9
172.5°	605.9	607.0	608.1	609.3	610.4	610.5	609.7	608.8	608.0	607.2	607.1
175°	608.2	609.5	610.7	611.9	613.1	613.3	612.4	611.5	610.6	609.7	609.6
177.5°	609.8	610.7	611.7	612.7	613.6	613.8	613.1	612.5	611.8	611.2	611.0
180°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	2061.8	2052.9	2048.3	2038.0	2025.7	2019.2	2013.5	2005.1	1994.1	1982.5	1974.1
5°	2166.5	2147.2	2122.9	2094.0	2068.1	2043.2	2021.3	1999.6	1974.6	1948.8	1923.0
7.5°	2273.9	2235.8	2194.7	2147.2	2100.8	2058.8	2020.0	1983.0	1941.1	1903.5	1869.3
10°	2348.7	2297.1	2239.9	2179.4	2118.9	2066.5	2014.9	1968.1	1916.5	1870.6	1831.9
12.5°	2409.3	2348.7	2279.9	2204.5	2131.8	2068.4	2009.1	1948.1	1889.5	1839.7	1788.1
15°	2509.9	2426.9	2334.2	2243.9	2149.6	2063.3	1983.5	1912.5	1845.6	1775.4	1726.3
17.5°	2579.2	2480.6	2367.9	2259.4	2148.0	2046.2	1954.1	1869.7	1792.4	1720.8	1662.2
20°	2620.4	2511.5	2386.6	2263.2	2138.3	2029.4	1930.3	1836.7	1756.9	1679.5	1619.0
22.5°	2643.6	2523.1	2386.6	2257.5	2128.0	2010.0	1901.2	1803.8	1716.9	1639.5	1572.6
25°	2651.1	2522.0	2382.6	2234.2	2092.3	1967.3	1854.4	1748.8	1652.0	1574.7	1503.7
27.5°	2640.8	2488.8	2346.0	2193.7	2047.3	1915.6	1797.1	1686.1	1589.2	1506.1	1433.4
30°	2625.2	2462.4	2309.2	2151.2	2002.8	1876.2	1751.2	1644.9	1544.1	1457.7	1384.4
32.5°	2591.7	2430.1	2265.3	2103.4	1953.2	1822.7	1704.1	1597.1	1498.2	1410.1	1332.1
35°	2525.3	2361.6	2182.6	2016.5	1869.0	1733.5	1622.2	1519.0	1424.7	1330.4	1248.1
37.5°	2437.7	2270.5	2092.4	1910.6	1762.8	1635.0	1532.9	1436.0	1343.9	1257.8	1166.7
40°	2355.2	2202.8	2018.9	1838.4	1686.8	1563.4	1469.1	1381.2	1288.5	1203.0	1111.9
42.5°	2255.2	2125.4	1939.6	1758.4	1608.7	1489.9	1402.0	1316.1	1231.7	1148.8	1053.8
45°	2088.3	1989.9	1815.7	1641.6	1490.9	1373.1	1292.5	1216.7	1142.5	1063.5	974.0
47.5°	1897.0	1830.4	1680.1	1501.8	1362.3	1256.4	1178.5	1116.5	1053.8	974.8	896.3
50°	1764.1	1721.4	1576.3	1413.4	1280.4	1182.9	1103.0	1044.9	992.5	916.8	846.6
52.5°	1622.2	1599.5	1476.9	1321.2	1192.7	1097.0	1028.9	976.5	923.5	860.6	795.0
55°	1406.1	1418.3	1314.2	1179.6	1058.6	978.1	915.9	872.4	827.3	774.1	723.3
57.5°	1185.3	1229.4	1159.6	1041.4	928.1	853.5	806.8	770.1	732.3	688.1	644.7
60°	1053.0	1090.0	1050.6	946.5	847.4	778.1	734.6	706.3	668.4	628.1	595.0
62.5°	924.0	963.7	940.3	856.3	764.2	704.6	666.1	639.9	611.7	576.5	542.2
65°	761.9	787.7	776.5	718.4	653.1	602.3	566.8	547.4	521.7	495.8	465.2
67.5°	583.6	633.4	626.8	596.0	539.6	499.9	476.7	459.6	436.1	416.9	396.1
70°	479.8	525.7	524.9	499.9	469.3	432.1	416.1	401.5	380.5	362.0	345.1
72.5°	392.6	434.7	441.0	421.8	400.9	372.8	357.4	347.4	327.0	314.3	300.5
75°	275.0	305.6	313.7	313.7	304.0	289.4	275.8	269.3	254.8	243.5	235.4
77.5°	180.3	199.7	212.2	215.1	216.6	211.8	200.5	195.9	184.8	180.8	173.0
80°	127.3	140.3	154.8	159.7	163.7	162.1	157.2	154.0	143.5	139.5	136.2
82.5°	88.1	95.1	107.0	117.8	116.5	120.8	116.5	114.0	106.1	104.6	101.4
85°	45.9	46.8	48.4	55.6	59.7	61.3	62.1	60.5	58.1	58.1	52.4
87.5°	17.2	16.4	17.5	17.3	17.7	20.1	21.8	22.2	20.5	18.8	17.1
90°	8.5	7.7	6.8	5.9	4.7	3.6	2.5	1.4	2.5	3.6	4.7
92.5°	8.1	7.3	6.5	6.1	6.0	5.9	5.9	5.8	5.9	5.9	6.0
95°	9.9	9.8	9.7	11.3	14.8	18.3	21.7	25.1	21.7	18.3	14.8
97.5°	34.7	46.2	57.5	62.1	59.9	57.8	55.6	53.4	55.6	57.8	59.9
100°	48.2	62.2	76.2	82.4	80.6	78.8	76.9	75.0	76.9	78.8	80.6
102.5°	100.7	102.5	104.3	104.6	103.2	101.9	100.6	99.3	100.6	101.9	103.2
105°	141.8	141.3	140.8	140.2	139.6	139.0	138.4	137.7	138.4	139.0	139.6
107.5°	176.6	175.9	175.3	174.8	174.5	174.2	173.9	173.6	173.9	174.2	174.5
110°	200.7	200.0	199.3	198.9	198.6	198.3	198.0	197.7	198.0	198.3	198.6





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	224.3	224.1	223.8	223.4	222.8	222.3	221.7	221.2	221.7	222.3	222.8
115°	258.3	258.4	258.5	258.4	258.1	257.8	257.5	257.2	257.5	257.8	258.1
117.5°	292.1	291.9	291.6	291.3	290.9	290.5	290.1	289.7	290.1	290.5	290.9
120°	313.3	313.4	313.5	313.3	312.9	312.5	312.0	311.6	312.0	312.5	312.9
122.5°	333.7	333.5	333.4	333.2	333.0	332.6	332.4	332.1	332.4	332.6	333.0
125°	362.8	363.0	363.2	363.1	362.7	362.3	361.9	361.5	361.9	362.3	362.7
127.5°	391.0	390.5	390.1	389.8	389.7	389.6	389.5	389.4	389.5	389.6	389.7
130°	408.6	408.3	408.0	407.8	407.7	407.6	407.4	407.3	407.4	407.6	407.7
132.5°	425.6	425.3	424.9	424.5	424.3	424.1	423.9	423.8	423.9	424.1	424.3
135°	449.1	448.7	448.3	448.1	448.2	448.3	448.4	448.5	448.4	448.3	448.2
137.5°	471.7	471.2	470.8	470.6	470.5	470.5	470.4	470.4	470.4	470.5	470.5
140°	486.1	485.8	485.6	485.4	485.2	485.0	484.8	484.6	484.8	485.0	485.2
142.5°	499.5	499.3	499.2	499.0	498.6	498.3	497.9	497.5	497.9	498.3	498.6
145°	518.6	518.6	518.6	518.4	518.1	517.8	517.5	517.2	517.5	517.8	518.1
147.5°	535.1	535.2	535.3	535.1	534.5	533.9	533.4	532.8	533.4	533.9	534.5
150°	545.7	545.8	545.9	545.8	545.4	545.0	544.6	544.2	544.6	545.0	545.4
152.5°	554.7	554.9	555.0	555.0	554.6	554.3	554.0	553.7	554.0	554.3	554.6
155°	566.7	567.0	567.3	567.4	567.3	567.2	567.1	567.0	567.1	567.2	567.3
157.5°	577.1	577.5	577.8	578.0	578.1	578.1	578.2	578.3	578.2	578.1	578.1
160°	583.3	583.4	583.5	583.7	584.0	584.3	584.6	584.9	584.6	584.3	584.0
162.5°	588.8	588.9	589.0	589.3	589.6	590.0	590.4	590.8	590.4	590.0	589.6
165°	595.9	595.9	595.9	596.1	596.6	597.1	597.6	598.1	597.6	597.1	596.6
167.5°	601.5	601.6	601.6	601.9	602.5	603.0	603.5	604.0	603.5	603.0	602.5
170°	604.8	604.7	604.6	604.9	605.5	606.1	606.7	607.3	606.7	606.1	605.5
172.5°	607.0	606.9	606.8	607.1	607.7	608.3	608.9	609.6	608.9	608.3	607.7
175°	609.5	609.4	609.3	609.5	610.1	610.7	611.3	611.9	611.3	610.7	610.1
177.5°	610.9	610.7	610.6	610.8	611.3	611.9	612.5	613.0	612.5	611.9	611.3
180°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9



TEST NUMBER: P333095-840

CATALOG NUMBER: S124RDIW-S1195D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	1965.1	1958.6	1950.3	1940.6	1928.9	1918.6	1914.1	1918.0	1920.0	1914.8	1914.1
5°	1905.2	1885.1	1869.0	1844.8	1825.4	1809.3	1798.1	1793.2	1794.8	1781.9	1778.7
7.5°	1838.1	1814.1	1787.7	1759.0	1732.2	1708.5	1696.1	1689.3	1675.7	1669.8	1660.0
10°	1794.8	1762.5	1736.8	1702.8	1672.2	1644.1	1630.3	1619.0	1605.3	1598.8	1585.2
12.5°	1750.3	1712.8	1684.5	1649.3	1618.0	1584.1	1570.9	1550.0	1528.5	1515.0	1497.4
15°	1687.6	1642.4	1607.7	1565.8	1528.7	1490.1	1455.3	1416.6	1402.1	1371.5	1353.7
17.5°	1614.2	1568.4	1525.5	1469.3	1412.0	1363.9	1327.0	1289.9	1267.7	1248.1	1239.1
20°	1565.8	1523.9	1464.2	1398.9	1335.2	1282.0	1252.1	1228.0	1203.8	1190.1	1180.4
22.5°	1520.0	1466.4	1397.1	1326.7	1262.9	1221.3	1196.1	1171.2	1151.5	1138.5	1125.6
25°	1443.3	1373.1	1299.7	1219.1	1175.6	1139.3	1111.9	1091.7	1079.6	1062.7	1056.2
27.5°	1364.4	1279.4	1198.5	1144.3	1098.9	1065.7	1041.9	1026.7	1011.4	1000.6	992.2
30°	1303.7	1217.5	1144.9	1093.3	1047.3	1020.0	1000.6	982.9	970.8	961.9	955.4
32.5°	1243.7	1157.5	1096.5	1041.1	1004.8	978.1	957.4	944.1	934.6	923.2	919.3
35°	1157.0	1080.5	1027.2	977.2	940.1	915.9	899.8	886.2	878.1	874.8	872.4
37.5°	1073.7	1010.9	953.7	912.7	879.7	860.6	841.6	834.9	829.3	823.5	826.2
40°	1020.8	961.9	911.1	867.6	840.9	820.0	808.7	800.6	795.8	795.8	795.8
42.5°	974.9	917.4	867.9	828.9	802.2	784.6	771.9	765.2	763.6	763.0	766.8
45°	903.8	850.6	800.6	768.4	745.8	728.1	720.8	715.2	715.2	718.4	719.2
47.5°	833.3	783.6	743.4	707.3	686.6	675.5	669.2	666.3	666.6	669.8	673.6
50°	790.1	740.9	701.5	669.2	649.8	639.3	633.7	632.2	633.7	633.7	639.3
52.5°	743.1	699.0	660.1	633.1	611.2	601.4	598.2	596.0	596.9	599.6	602.0
55°	674.1	634.5	597.4	571.7	555.5	549.1	541.8	542.6	541.0	542.6	542.6
57.5°	604.9	569.4	534.9	514.4	500.2	490.9	482.9	485.2	482.8	482.5	481.2
60°	560.4	521.7	494.2	475.7	459.6	451.5	444.2	445.9	443.4	441.8	438.6
62.5°	512.0	479.8	453.6	435.8	422.8	413.4	406.2	404.6	399.0	393.4	386.4
65°	441.8	415.3	391.8	375.0	362.8	355.6	349.9	345.1	333.0	320.1	313.7
67.5°	373.7	354.5	332.6	318.3	308.5	299.0	288.2	279.9	268.6	261.6	257.5
70°	329.7	311.2	292.7	278.9	268.5	259.6	247.5	241.9	233.8	230.6	226.6
72.5°	287.8	270.5	253.4	241.0	229.7	222.9	213.4	207.7	204.2	202.9	198.8
75°	224.2	210.5	197.5	186.2	177.4	172.6	168.5	164.5	162.9	155.6	151.6
77.5°	163.5	154.5	146.4	138.4	132.1	128.9	121.1	116.4	113.7	110.3	109.5
80°	127.3	121.0	112.9	108.1	99.2	95.9	92.7	91.9	91.1	90.3	89.5
82.5°	95.8	89.4	81.3	78.4	75.9	74.0	72.1	71.3	70.5	71.0	70.8
85°	48.4	45.1	45.1	44.3	43.5	42.7	41.9	41.9	41.1	41.9	41.1
87.5°	17.3	16.9	17.0	15.9	16.7	16.9	16.4	16.5	17.2	16.1	16.2
90°	5.9	6.8	7.7	8.5	9.3	10.1	10.7	11.3	11.9	12.5	12.9
92.5°	6.1	6.5	7.3	8.1	8.9	9.7	10.3	10.9	11.5	12.1	12.4
95°	11.3	9.7	9.8	9.9	10.0	10.1	10.7	11.3	11.9	12.5	12.8
97.5°	62.1	57.5	46.2	34.7	23.4	12.1	12.1	12.2	12.2	12.3	12.4
100°	82.4	76.2	62.2	48.2	34.1	20.1	18.4	16.7	14.9	13.2	12.4
102.5°	104.6	104.3	102.5	100.7	98.9	97.0	78.4	59.7	41.1	22.4	13.1
105°	140.2	140.8	141.3	141.8	142.3	142.8	143.7	144.6	145.5	146.4	145.1
107.5°	174.8	175.3	175.9	176.6	177.3	178.0	178.4	178.9	179.4	179.9	180.3
110°	198.9	199.3	200.0	200.7	201.3	201.9	202.1	202.3	202.5	202.7	202.9



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	223.4	223.8	224.1	224.3	224.6	224.9	224.9	224.8	224.8	224.7	224.9
115°	258.4	258.5	258.4	258.3	258.2	258.1	258.3	258.5	258.7	258.9	259.0
117.5°	291.3	291.6	291.9	292.1	292.4	292.6	292.5	292.5	292.5	292.4	292.4
120°	313.3	313.5	313.4	313.3	313.2	313.1	313.3	313.5	313.7	313.9	313.9
122.5°	333.2	333.4	333.5	333.7	333.8	334.0	334.1	334.2	334.3	334.4	334.4
125°	363.1	363.2	363.0	362.8	362.6	362.4	362.7	363.0	363.3	363.7	363.9
127.5°	389.8	390.1	390.5	391.0	391.5	391.9	391.9	391.8	391.7	391.7	391.6
130°	407.8	408.0	408.3	408.6	408.9	409.2	409.3	409.4	409.5	409.6	409.6
132.5°	424.5	424.9	425.3	425.6	426.0	426.4	426.5	426.6	426.7	426.8	426.8
135°	448.1	448.3	448.7	449.1	449.5	449.9	450.1	450.3	450.5	450.7	450.9
137.5°	470.6	470.8	471.2	471.7	472.1	472.6	472.8	473.0	473.2	473.5	473.5
140°	485.4	485.6	485.8	486.1	486.4	486.6	486.9	487.2	487.5	487.8	488.0
142.5°	499.0	499.2	499.3	499.5	499.6	499.7	499.9	500.1	500.4	500.6	500.7
145°	518.4	518.6	518.6	518.6	518.6	518.6	518.7	518.8	518.9	519.0	519.1
147.5°	535.1	535.3	535.2	535.1	535.0	534.9	535.0	535.1	535.1	535.2	535.3
150°	545.8	545.9	545.8	545.7	545.6	545.5	545.5	545.5	545.5	545.5	545.6
152.5°	555.0	555.0	554.9	554.7	554.5	554.3	554.5	554.6	554.8	555.0	555.0
155°	567.4	567.3	567.0	566.7	566.4	566.1	566.5	566.9	567.3	567.7	567.8
157.5°	578.0	577.8	577.5	577.1	576.8	576.5	577.0	577.5	578.0	578.6	578.6
160°	583.7	583.5	583.4	583.3	583.2	583.1	583.7	584.3	584.9	585.5	585.5
162.5°	589.3	589.0	588.9	588.8	588.7	588.5	589.2	589.8	590.4	591.0	591.0
165°	596.1	595.9	595.9	595.9	595.9	595.9	596.7	597.5	598.3	599.2	599.1
167.5°	601.9	601.6	601.6	601.5	601.5	601.4	602.3	603.2	604.1	605.0	604.9
170°	604.9	604.6	604.7	604.8	604.9	605.0	605.8	606.6	607.4	608.3	608.2
172.5°	607.1	606.8	606.9	607.0	607.1	607.2	608.0	608.8	609.7	610.5	610.4
175°	609.5	609.3	609.4	609.5	609.6	609.7	610.6	611.5	612.4	613.3	613.1
177.5°	610.8	610.6	610.7	610.9	611.0	611.2	611.8	612.5	613.1	613.8	613.6
180°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9



TEST NUMBER: P333095-840

CATALOG NUMBER: S124RDIW-S1195D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	1910.3	1911.6	1907.0	1905.7	1907.0	1911.6	1910.3	1914.1	1914.8	1920.0	1918.0
5°	1772.2	1770.6	1766.6	1767.4	1766.6	1770.6	1772.2	1778.7	1781.9	1794.8	1793.2
7.5°	1654.2	1647.9	1649.6	1643.3	1649.6	1647.9	1654.2	1660.0	1669.8	1675.7	1689.3
10°	1582.0	1573.1	1565.8	1559.3	1565.8	1573.1	1582.0	1585.2	1598.8	1605.3	1619.0
12.5°	1483.3	1475.6	1465.8	1467.7	1465.8	1475.6	1483.3	1497.4	1515.0	1528.5	1550.0
15°	1343.2	1331.2	1311.8	1314.2	1311.8	1331.2	1343.2	1353.7	1371.5	1402.1	1416.6
17.5°	1224.8	1224.9	1216.1	1218.1	1216.1	1224.9	1224.8	1239.1	1248.1	1267.7	1289.9
20°	1163.5	1157.8	1158.6	1156.2	1158.6	1157.8	1163.5	1180.4	1190.1	1203.8	1228.0
22.5°	1120.8	1114.0	1108.3	1103.3	1108.3	1114.0	1120.8	1125.6	1138.5	1151.5	1171.2
25°	1048.9	1044.1	1036.9	1035.3	1036.9	1044.1	1048.9	1056.2	1062.7	1079.6	1091.7
27.5°	985.7	984.8	981.9	978.2	981.9	984.8	985.7	992.2	1000.6	1011.4	1026.7
30°	949.0	947.4	945.7	943.3	945.7	947.4	949.0	955.4	961.9	970.8	982.9
32.5°	916.1	915.1	913.5	913.7	913.5	915.1	916.1	919.3	923.2	934.6	944.1
35°	869.2	868.4	866.8	866.0	866.8	868.4	869.2	872.4	874.8	878.1	886.2
37.5°	825.4	827.4	826.5	826.3	826.5	827.4	825.4	826.2	823.5	829.3	834.9
40°	795.0	795.8	797.4	796.6	797.4	795.8	795.0	795.8	795.8	795.8	800.6
42.5°	769.8	770.0	772.2	769.5	772.2	770.0	769.8	766.8	763.0	763.6	765.2
45°	724.9	729.7	728.9	728.9	728.9	729.7	724.9	719.2	718.4	715.2	715.2
47.5°	675.7	679.8	681.0	680.9	681.0	679.8	675.7	673.6	669.8	666.6	666.3
50°	643.4	641.8	644.2	643.4	644.2	641.8	643.4	639.3	633.7	633.7	632.2
52.5°	604.1	604.4	604.2	603.4	604.2	604.4	604.1	602.0	599.6	596.9	596.0
55°	543.4	544.2	542.6	543.4	542.6	544.2	543.4	542.6	542.6	541.0	542.6
57.5°	477.7	473.7	475.3	473.4	475.3	473.7	477.7	481.2	482.5	482.8	485.2
60°	430.6	424.1	422.5	419.3	422.5	424.1	430.6	438.6	441.8	443.4	445.9
62.5°	377.7	373.1	367.7	370.2	367.7	373.1	377.7	386.4	393.4	399.0	404.6
65°	307.2	304.0	301.5	304.8	301.5	304.0	307.2	313.7	320.1	333.0	345.1
67.5°	254.3	252.6	252.6	251.0	252.6	252.6	254.3	257.5	261.6	268.6	279.9
70°	226.6	224.2	224.2	222.6	224.2	224.2	226.6	226.6	230.6	233.8	241.9
72.5°	198.1	195.8	196.4	195.4	196.4	195.8	198.1	198.8	202.9	204.2	207.7
75°	146.7	142.7	142.7	143.5	142.7	142.7	146.7	151.6	155.6	162.9	164.5
77.5°	109.5	108.7	109.8	108.4	109.8	108.7	109.5	109.5	110.3	113.7	116.4
80°	89.5	88.7	87.9	90.3	87.9	88.7	89.5	89.5	90.3	91.1	91.9
82.5°	69.5	69.4	69.2	72.2	69.2	69.4	69.5	70.8	71.0	70.5	71.3
85°	41.9	40.3	41.9	40.3	41.9	40.3	41.9	41.1	41.9	41.1	41.9
87.5°	17.5	16.9	16.3	17.0	16.3	16.9	17.5	16.2	16.1	17.2	16.5
90°	13.1	13.3	13.5	13.7	13.5	13.3	13.1	12.9	12.5	11.9	11.3
92.5°	12.5	12.5	12.6	12.6	12.6	12.5	12.5	12.4	12.1	11.5	10.9
95°	12.9	13.0	13.1	13.2	13.1	13.0	12.9	12.8	12.5	11.9	11.3
97.5°	12.5	12.6	12.7	12.8	12.7	12.6	12.5	12.4	12.3	12.2	12.2
100°	12.5	12.6	12.7	12.8	12.7	12.6	12.5	12.4	13.2	14.9	16.7
102.5°	13.1	13.1	13.1	13.2	13.1	13.1	13.1	13.1	22.4	41.1	59.7
105°	141.4	137.7	134.1	130.5	134.1	137.7	141.4	145.1	146.4	145.5	144.6
107.5°	180.7	181.0	181.4	181.8	181.4	181.0	180.7	180.3	179.9	179.4	178.9
110°	203.2	203.5	203.8	204.1	203.8	203.5	203.2	202.9	202.7	202.5	202.3



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	225.3	225.7	226.1	226.4	226.1	225.7	225.3	224.9	224.7	224.8	224.8
115°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	258.9	258.7	258.5
117.5°	292.3	292.3	292.3	292.2	292.3	292.3	292.3	292.4	292.4	292.5	292.5
120°	313.7	313.5	313.3	313.1	313.3	313.5	313.7	313.9	313.9	313.7	313.5
122.5°	334.2	334.0	333.8	333.6	333.8	334.0	334.2	334.4	334.4	334.3	334.2
125°	364.0	364.1	364.2	364.3	364.2	364.1	364.0	363.9	363.7	363.3	363.0
127.5°	391.5	391.4	391.4	391.3	391.4	391.4	391.5	391.6	391.7	391.7	391.8
130°	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.6	409.5	409.4
132.5°	426.7	426.7	426.6	426.5	426.6	426.7	426.7	426.8	426.8	426.7	426.6
135°	451.1	451.3	451.5	451.7	451.5	451.3	451.1	450.9	450.7	450.5	450.3
137.5°	473.5	473.4	473.4	473.3	473.4	473.4	473.5	473.5	473.5	473.2	473.0
140°	488.1	488.2	488.3	488.4	488.3	488.2	488.1	488.0	487.8	487.5	487.2
142.5°	500.7	500.8	500.8	500.8	500.8	500.8	500.7	500.7	500.6	500.4	500.1
145°	519.3	519.5	519.7	519.9	519.7	519.5	519.3	519.1	519.0	518.9	518.8
147.5°	535.4	535.5	535.6	535.7	535.6	535.5	535.4	535.3	535.2	535.1	535.1
150°	545.7	545.8	545.9	546.0	545.9	545.8	545.7	545.6	545.5	545.5	545.5
152.5°	555.0	554.9	554.8	554.8	554.8	554.9	555.0	555.0	555.0	554.8	554.6
155°	567.5	567.2	566.9	566.6	566.9	567.2	567.5	567.8	567.7	567.3	566.9
157.5°	578.0	577.5	577.0	576.5	577.0	577.5	578.0	578.6	578.6	578.0	577.5
160°	584.9	584.3	583.7	583.1	583.7	584.3	584.9	585.5	585.5	584.9	584.3
162.5°	590.3	589.6	588.9	588.2	588.9	589.6	590.3	591.0	591.0	590.4	589.8
165°	598.1	597.2	596.3	595.4	596.3	597.2	598.1	599.1	599.2	598.3	597.5
167.5°	603.9	602.9	601.9	600.9	601.9	602.9	603.9	604.9	605.0	604.1	603.2
170°	607.1	606.1	605.1	604.1	605.1	606.1	607.1	608.2	608.3	607.4	606.6
172.5°	609.3	608.1	607.0	605.9	607.0	608.1	609.3	610.4	610.5	609.7	608.8
175°	611.9	610.7	609.5	608.2	609.5	610.7	611.9	613.1	613.3	612.4	611.5
177.5°	612.7	611.7	610.7	609.8	610.7	611.7	612.7	613.6	613.8	613.1	612.5
180°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9



TEST NUMBER: P333095-840

CATALOG NUMBER: S124RDIW-S1195D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	1914.1	1918.6	1928.9	1940.6	1950.3	1958.6	1965.1	1974.1	1982.5	1994.1	2005.1
5°	1798.1	1809.3	1825.4	1844.8	1869.0	1885.1	1905.2	1923.0	1948.8	1974.6	1999.6
7.5°	1696.1	1708.5	1732.2	1759.0	1787.7	1814.1	1838.1	1869.3	1903.5	1941.1	1983.0
10°	1630.3	1644.1	1672.2	1702.8	1736.8	1762.5	1794.8	1831.9	1870.6	1916.5	1968.1
12.5°	1570.9	1584.1	1618.0	1649.3	1684.5	1712.8	1750.3	1788.1	1839.7	1889.5	1948.1
15°	1455.3	1490.1	1528.7	1565.8	1607.7	1642.4	1687.6	1726.3	1775.4	1845.6	1912.5
17.5°	1327.0	1363.9	1412.0	1469.3	1525.5	1568.4	1614.2	1662.2	1720.8	1792.4	1869.7
20°	1252.1	1282.0	1335.2	1398.9	1464.2	1523.9	1565.8	1619.0	1679.5	1756.9	1836.7
22.5°	1196.1	1221.3	1262.9	1326.7	1397.1	1466.4	1520.0	1572.6	1639.5	1716.9	1803.8
25°	1111.9	1139.3	1175.6	1219.1	1299.7	1373.1	1443.3	1503.7	1574.7	1652.0	1748.8
27.5°	1041.9	1065.7	1098.9	1144.3	1198.5	1279.4	1364.4	1433.4	1506.1	1589.2	1686.1
30°	1000.6	1020.0	1047.3	1093.3	1144.9	1217.5	1303.7	1384.4	1457.7	1544.1	1644.9
32.5°	957.4	978.1	1004.8	1041.1	1096.5	1157.5	1243.7	1332.1	1410.1	1498.2	1597.1
35°	899.8	915.9	940.1	977.2	1027.2	1080.5	1157.0	1248.1	1330.4	1424.7	1519.0
37.5°	841.6	860.6	879.7	912.7	953.7	1010.9	1073.7	1166.7	1257.8	1343.9	1436.0
40°	808.7	820.0	840.9	867.6	911.1	961.9	1020.8	1111.9	1203.0	1288.5	1381.2
42.5°	771.9	784.6	802.2	828.9	867.9	917.4	974.9	1053.8	1148.8	1231.7	1316.1
45°	720.8	728.1	745.8	768.4	800.6	850.6	903.8	974.0	1063.5	1142.5	1216.7
47.5°	669.2	675.5	686.6	707.3	743.4	783.6	833.3	896.3	974.8	1053.8	1116.5
50°	633.7	639.3	649.8	669.2	701.5	740.9	790.1	846.6	916.8	992.5	1044.9
52.5°	598.2	601.4	611.2	633.1	660.1	699.0	743.1	795.0	860.6	923.5	976.5
55°	541.8	549.1	555.5	571.7	597.4	634.5	674.1	723.3	774.1	827.3	872.4
57.5°	482.9	490.9	500.2	514.4	534.9	569.4	604.9	644.7	688.1	732.3	770.1
60°	444.2	451.5	459.6	475.7	494.2	521.7	560.4	595.0	628.1	668.4	706.3
62.5°	406.2	413.4	422.8	435.8	453.6	479.8	512.0	542.2	576.5	611.7	639.9
65°	349.9	355.6	362.8	375.0	391.8	415.3	441.8	465.2	495.8	521.7	547.4
67.5°	288.2	299.0	308.5	318.3	332.6	354.5	373.7	396.1	416.9	436.1	459.6
70°	247.5	259.6	268.5	278.9	292.7	311.2	329.7	345.1	362.0	380.5	401.5
72.5°	213.4	222.9	229.7	241.0	253.4	270.5	287.8	300.5	314.3	327.0	347.4
75°	168.5	172.6	177.4	186.2	197.5	210.5	224.2	235.4	243.5	254.8	269.3
77.5°	121.1	128.9	132.1	138.4	146.4	154.5	163.5	173.0	180.8	184.8	195.9
80°	92.7	95.9	99.2	108.1	112.9	121.0	127.3	136.2	139.5	143.5	154.0
82.5°	72.1	74.0	75.9	78.4	81.3	89.4	95.8	101.4	104.6	106.1	114.0
85°	41.9	42.7	43.5	44.3	45.1	45.1	48.4	52.4	58.1	58.1	60.5
87.5°	16.4	16.9	16.7	15.9	17.0	16.9	17.3	17.1	18.8	20.5	22.2
90°	10.7	10.1	9.3	8.5	7.7	6.8	5.9	4.7	3.6	2.5	1.4
92.5°	10.3	9.7	8.9	8.1	7.3	6.5	6.1	6.0	5.9	5.9	5.8
95°	10.7	10.1	10.0	9.9	9.8	9.7	11.3	14.8	18.3	21.7	25.1
97.5°	12.1	12.1	23.4	34.7	46.2	57.5	62.1	59.9	57.8	55.6	53.4
100°	18.4	20.1	34.1	48.2	62.2	76.2	82.4	80.6	78.8	76.9	75.0
102.5°	78.4	97.0	98.9	100.7	102.5	104.3	104.6	103.2	101.9	100.6	99.3
105°	143.7	142.8	142.3	141.8	141.3	140.8	140.2	139.6	139.0	138.4	137.7
107.5°	178.4	178.0	177.3	176.6	175.9	175.3	174.8	174.5	174.2	173.9	173.6
110°	202.1	201.9	201.3	200.7	200.0	199.3	198.9	198.6	198.3	198.0	197.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	224.9	224.9	224.6	224.3	224.1	223.8	223.4	222.8	222.3	221.7	221.2
115°	258.3	258.1	258.2	258.3	258.4	258.5	258.4	258.1	257.8	257.5	257.2
117.5°	292.5	292.6	292.4	292.1	291.9	291.6	291.3	290.9	290.5	290.1	289.7
120°	313.3	313.1	313.2	313.3	313.4	313.5	313.3	312.9	312.5	312.0	311.6
122.5°	334.1	334.0	333.8	333.7	333.5	333.4	333.2	333.0	332.6	332.4	332.1
125°	362.7	362.4	362.6	362.8	363.0	363.2	363.1	362.7	362.3	361.9	361.5
127.5°	391.9	391.9	391.5	391.0	390.5	390.1	389.8	389.7	389.6	389.5	389.4
130°	409.3	409.2	408.9	408.6	408.3	408.0	407.8	407.7	407.6	407.4	407.3
132.5°	426.5	426.4	426.0	425.6	425.3	424.9	424.5	424.3	424.1	423.9	423.8
135°	450.1	449.9	449.5	449.1	448.7	448.3	448.1	448.2	448.3	448.4	448.5
137.5°	472.8	472.6	472.1	471.7	471.2	470.8	470.6	470.5	470.5	470.4	470.4
140°	486.9	486.6	486.4	486.1	485.8	485.6	485.4	485.2	485.0	484.8	484.6
142.5°	499.9	499.7	499.6	499.5	499.3	499.2	499.0	498.6	498.3	497.9	497.5
145°	518.7	518.6	518.6	518.6	518.6	518.6	518.4	518.1	517.8	517.5	517.2
147.5°	535.0	534.9	535.0	535.1	535.2	535.3	535.1	534.5	533.9	533.4	532.8
150°	545.5	545.5	545.6	545.7	545.8	545.9	545.8	545.4	545.0	544.6	544.2
152.5°	554.5	554.3	554.5	554.7	554.9	555.0	555.0	554.6	554.3	554.0	553.7
155°	566.5	566.1	566.4	566.7	567.0	567.3	567.4	567.3	567.2	567.1	567.0
157.5°	577.0	576.5	576.8	577.1	577.5	577.8	578.0	578.1	578.1	578.2	578.3
160°	583.7	583.1	583.2	583.3	583.4	583.5	583.7	584.0	584.3	584.6	584.9
162.5°	589.2	588.5	588.7	588.8	588.9	589.0	589.3	589.6	590.0	590.4	590.8
165°	596.7	595.9	595.9	595.9	595.9	595.9	596.1	596.6	597.1	597.6	598.1
167.5°	602.3	601.4	601.5	601.5	601.6	601.6	601.9	602.5	603.0	603.5	604.0
170°	605.8	605.0	604.9	604.8	604.7	604.6	604.9	605.5	606.1	606.7	607.3
172.5°	608.0	607.2	607.1	607.0	606.9	606.8	607.1	607.7	608.3	608.9	609.6
175°	610.6	609.7	609.6	609.5	609.4	609.3	609.5	610.1	610.7	611.3	611.9
177.5°	611.8	611.2	611.0	610.9	610.7	610.6	610.8	611.3	611.9	612.5	613.0
180°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9



TEST NUMBER: P333095-840

CATALOG NUMBER: S124RDIW-S1195D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	2013.5	2019.2	2025.7	2038.0	2048.3	2052.9	2061.8	2068.3	2066.4	2075.4	2090.8
5°	2021.3	2043.2	2068.1	2094.0	2122.9	2147.2	2166.5	2185.9	2201.2	2219.7	2247.2
7.5°	2020.0	2058.8	2100.8	2147.2	2194.7	2235.8	2273.9	2312.6	2346.9	2384.5	2433.7
10°	2014.9	2066.5	2118.9	2179.4	2239.9	2297.1	2348.7	2397.1	2443.1	2492.2	2554.4
12.5°	2009.1	2068.4	2131.8	2204.5	2279.9	2348.7	2409.3	2479.0	2536.6	2600.0	2671.7
15°	1983.5	2063.3	2149.6	2243.9	2334.2	2426.9	2509.9	2595.5	2675.2	2751.1	2841.4
17.5°	1954.1	2046.2	2148.0	2259.4	2367.9	2480.6	2579.2	2686.8	2768.4	2870.2	2954.1
20°	1930.3	2029.4	2138.3	2263.2	2386.6	2511.5	2620.4	2730.1	2822.0	2924.4	3030.8
22.5°	1901.2	2010.0	2128.0	2257.5	2386.6	2523.1	2643.6	2752.7	2866.5	2981.8	3091.5
25°	1854.4	1967.3	2092.3	2234.2	2382.6	2522.0	2651.1	2786.5	2909.1	3034.0	3132.4
27.5°	1797.1	1915.6	2047.3	2193.7	2346.0	2488.8	2640.8	2785.1	2908.4	3028.7	3114.5
30°	1751.2	1876.2	2002.8	2151.2	2309.2	2462.4	2625.2	2769.6	2899.4	3007.5	3055.9
32.5°	1704.1	1822.7	1953.2	2103.4	2265.3	2430.1	2591.7	2739.3	2859.4	2924.3	2925.5
35°	1622.2	1733.5	1869.0	2016.5	2182.6	2361.6	2525.3	2670.4	2743.8	2749.5	2670.4
37.5°	1532.9	1635.0	1762.8	1910.6	2092.4	2270.5	2437.7	2534.5	2559.0	2476.9	2330.8
40°	1469.1	1563.4	1686.8	1838.4	2018.9	2202.8	2355.2	2426.1	2400.3	2267.2	2104.4
42.5°	1402.0	1489.9	1608.7	1758.4	1939.6	2125.4	2255.2	2293.2	2224.8	2071.2	1880.6
45°	1292.5	1373.1	1490.9	1641.6	1815.7	1989.9	2088.3	2068.9	1955.2	1773.0	1559.3
47.5°	1178.5	1256.4	1362.3	1501.8	1680.1	1830.4	1897.0	1838.7	1676.9	1476.4	1302.6
50°	1103.0	1182.9	1280.4	1413.4	1576.3	1721.4	1764.1	1675.5	1495.6	1302.9	1143.3
52.5°	1028.9	1097.0	1192.7	1321.2	1476.9	1599.5	1622.2	1520.0	1334.4	1161.6	1020.1
55°	915.9	978.1	1058.6	1179.6	1314.2	1418.3	1406.1	1274.8	1106.2	958.7	847.4
57.5°	806.8	853.5	928.1	1041.4	1159.6	1229.4	1185.3	1073.2	916.1	795.4	701.5
60°	734.6	778.1	847.4	946.5	1050.6	1090.0	1053.0	931.3	807.1	696.6	617.6
62.5°	666.1	704.6	764.2	856.3	940.3	963.7	924.0	817.7	705.8	611.5	546.0
65°	566.8	602.3	653.1	718.4	776.5	787.7	761.9	653.1	568.5	489.4	444.2
67.5°	476.7	499.9	539.6	596.0	626.8	633.4	583.6	515.2	440.6	392.0	358.0
70°	416.1	432.1	469.3	499.9	524.9	525.7	479.8	425.0	367.7	328.2	303.2
72.5°	357.4	372.8	400.9	421.8	441.0	434.7	392.6	349.4	303.2	273.4	254.8
75°	275.8	289.4	304.0	313.7	313.7	305.6	275.0	242.7	216.1	198.3	192.7
77.5°	200.5	211.8	216.6	215.1	212.2	199.7	180.3	159.2	149.7	141.3	137.0
80°	157.2	162.1	163.7	159.7	154.8	140.3	127.3	118.6	109.7	106.4	104.8
82.5°	116.5	120.8	116.5	117.8	107.0	95.1	88.1	85.0	81.3	80.0	78.4
85°	62.1	61.3	59.7	55.6	48.4	46.8	45.9	45.1	43.5	44.3	42.7
87.5°	21.8	20.1	17.7	17.3	17.5	16.4	17.2	17.4	17.5	17.0	18.4
90°	2.5	3.6	4.7	5.9	6.8	7.7	8.5	9.3	10.1	10.7	11.3
92.5°	5.9	5.9	6.0	6.1	6.5	7.3	8.1	8.9	9.7	10.3	10.9
95°	21.7	18.3	14.8	11.3	9.7	9.8	9.9	10.0	10.1	10.7	11.3
97.5°	55.6	57.8	59.9	62.1	57.5	46.2	34.7	23.4	12.1	12.1	12.2
100°	76.9	78.8	80.6	82.4	76.2	62.2	48.2	34.1	20.1	18.4	16.7
102.5°	100.6	101.9	103.2	104.6	104.3	102.5	100.7	98.9	97.0	78.4	59.7
105°	138.4	139.0	139.6	140.2	140.8	141.3	141.8	142.3	142.8	143.7	144.6
107.5°	173.9	174.2	174.5	174.8	175.3	175.9	176.6	177.3	178.0	178.4	178.9
110°	198.0	198.3	198.6	198.9	199.3	200.0	200.7	201.3	201.9	202.1	202.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	221.7	222.3	222.8	223.4	223.8	224.1	224.3	224.6	224.9	224.9	224.8
115°	257.5	257.8	258.1	258.4	258.5	258.4	258.3	258.2	258.1	258.3	258.5
117.5°	290.1	290.5	290.9	291.3	291.6	291.9	292.1	292.4	292.6	292.5	292.5
120°	312.0	312.5	312.9	313.3	313.5	313.4	313.3	313.2	313.1	313.3	313.5
122.5°	332.4	332.6	333.0	333.2	333.4	333.5	333.7	333.8	334.0	334.1	334.2
125°	361.9	362.3	362.7	363.1	363.2	363.0	362.8	362.6	362.4	362.7	363.0
127.5°	389.5	389.6	389.7	389.8	390.1	390.5	391.0	391.5	391.9	391.9	391.8
130°	407.4	407.6	407.7	407.8	408.0	408.3	408.6	408.9	409.2	409.3	409.4
132.5°	423.9	424.1	424.3	424.5	424.9	425.3	425.6	426.0	426.4	426.5	426.6
135°	448.4	448.3	448.2	448.1	448.3	448.7	449.1	449.5	449.9	450.1	450.3
137.5°	470.4	470.5	470.5	470.6	470.8	471.2	471.7	472.1	472.6	472.8	473.0
140°	484.8	485.0	485.2	485.4	485.6	485.8	486.1	486.4	486.6	486.9	487.2
142.5°	497.9	498.3	498.6	499.0	499.2	499.3	499.5	499.6	499.7	499.9	500.1
145°	517.5	517.8	518.1	518.4	518.6	518.6	518.6	518.6	518.6	518.7	518.8
147.5°	533.4	533.9	534.5	535.1	535.3	535.2	535.1	535.0	534.9	535.0	535.1
150°	544.6	545.0	545.4	545.8	545.9	545.8	545.7	545.6	545.5	545.5	545.5
152.5°	554.0	554.3	554.6	555.0	555.0	554.9	554.7	554.5	554.3	554.5	554.6
155°	567.1	567.2	567.3	567.4	567.3	567.0	566.7	566.4	566.1	566.5	566.9
157.5°	578.2	578.1	578.1	578.0	577.8	577.5	577.1	576.8	576.5	577.0	577.5
160°	584.6	584.3	584.0	583.7	583.5	583.4	583.3	583.2	583.1	583.7	584.3
162.5°	590.4	590.0	589.6	589.3	589.0	588.9	588.8	588.7	588.5	589.2	589.8
165°	597.6	597.1	596.6	596.1	595.9	595.9	595.9	595.9	595.9	596.7	597.5
167.5°	603.5	603.0	602.5	601.9	601.6	601.6	601.5	601.5	601.4	602.3	603.2
170°	606.7	606.1	605.5	604.9	604.6	604.7	604.8	604.9	605.0	605.8	606.6
172.5°	608.9	608.3	607.7	607.1	606.8	606.9	607.0	607.1	607.2	608.0	608.8
175°	611.3	610.7	610.1	609.5	609.3	609.4	609.5	609.6	609.7	610.6	611.5
177.5°	612.5	611.9	611.3	610.8	610.6	610.7	610.9	611.0	611.2	611.8	612.5
180°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	2099.2	2101.8	2103.8	2110.2	2110.8	2116.7	2110.8
5°	2272.9	2284.2	2302.0	2319.7	2321.3	2332.6	2312.4
7.5°	2467.7	2493.9	2510.1	2538.8	2550.1	2557.2	2545.6
10°	2601.9	2626.1	2668.8	2689.8	2710.8	2713.9	2704.3
12.5°	2731.6	2770.0	2803.6	2843.3	2842.4	2870.7	2860.3
15°	2904.3	2943.8	2990.5	3034.8	3051.0	3051.0	3063.9
17.5°	3027.5	3099.9	3148.3	3183.1	3221.1	3227.7	3223.2
20°	3110.7	3188.9	3240.5	3285.6	3311.4	3318.7	3318.7
22.5°	3172.6	3239.1	3289.5	3330.1	3351.4	3359.9	3357.4
25°	3215.5	3272.7	3303.4	3315.5	3321.0	3319.5	3304.2
27.5°	3156.7	3154.2	3134.8	3097.8	3069.9	3052.9	3033.5
30°	3044.5	3002.6	2954.3	2901.0	2832.5	2780.1	2763.9
32.5°	2877.5	2783.3	2701.4	2612.7	2539.0	2486.6	2464.7
35°	2554.4	2405.2	2283.4	2177.0	2099.6	2051.2	2035.1
37.5°	2170.8	2026.5	1875.7	1772.5	1708.4	1659.5	1641.2
40°	1927.0	1769.8	1638.4	1541.7	1475.5	1427.9	1427.1
42.5°	1704.5	1554.4	1430.7	1361.0	1289.7	1258.3	1258.1
45°	1395.6	1275.6	1170.7	1115.9	1073.2	1047.3	1040.1
47.5°	1155.6	1056.2	986.4	942.7	907.9	891.4	880.8
50°	1020.8	933.7	878.1	840.1	820.8	799.8	798.2
52.5°	908.5	838.2	794.9	764.1	739.5	726.9	727.3
55°	763.6	707.9	677.3	653.9	634.5	624.9	620.9
57.5°	643.3	601.5	579.3	557.7	549.6	542.0	539.9
60°	568.5	540.2	519.3	502.3	490.2	487.8	487.0
62.5°	506.5	477.0	462.5	449.4	440.6	436.9	435.4
65°	417.7	395.9	382.9	372.5	369.3	363.7	362.8
67.5°	336.7	323.7	315.1	307.8	303.5	303.2	303.2
70°	287.0	279.7	272.6	268.5	266.1	264.5	264.5
72.5°	244.5	239.1	233.2	231.1	230.6	228.9	228.3
75°	186.2	180.6	181.4	177.4	174.2	170.2	167.7
77.5°	132.1	128.1	127.2	126.7	124.0	123.5	124.8
80°	102.4	98.4	97.6	98.4	97.6	95.1	95.1
82.5°	77.9	74.5	73.7	73.2	72.4	73.2	71.9
85°	41.9	40.3	40.3	40.3	41.9	41.1	40.3
87.5°	17.2	16.7	17.4	16.9	16.9	16.3	17.0
90°	11.9	12.5	12.9	13.1	13.3	13.5	13.7
92.5°	11.5	12.1	12.4	12.5	12.5	12.6	12.6
95°	11.9	12.5	12.8	12.9	13.0	13.1	13.2
97.5°	12.2	12.3	12.4	12.5	12.6	12.7	12.8
100°	14.9	13.2	12.4	12.5	12.6	12.7	12.8
102.5°	41.1	22.4	13.1	13.1	13.1	13.1	13.2
105°	145.5	146.4	145.1	141.4	137.7	134.1	130.5
107.5°	179.4	179.9	180.3	180.7	181.0	181.4	181.8
110°	202.5	202.7	202.9	203.2	203.5	203.8	204.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	224.8	224.7	224.9	225.3	225.7	226.1	226.4
115°	258.7	258.9	259.0	259.0	259.0	259.0	259.0
117.5°	292.5	292.4	292.4	292.3	292.3	292.3	292.2
120°	313.7	313.9	313.9	313.7	313.5	313.3	313.1
122.5°	334.3	334.4	334.4	334.2	334.0	333.8	333.6
125°	363.3	363.7	363.9	364.0	364.1	364.2	364.3
127.5°	391.7	391.7	391.6	391.5	391.4	391.4	391.3
130°	409.5	409.6	409.6	409.6	409.6	409.6	409.6
132.5°	426.7	426.8	426.8	426.7	426.7	426.6	426.5
135°	450.5	450.7	450.9	451.1	451.3	451.5	451.7
137.5°	473.2	473.5	473.5	473.5	473.4	473.4	473.3
140°	487.5	487.8	488.0	488.1	488.2	488.3	488.4
142.5°	500.4	500.6	500.7	500.7	500.8	500.8	500.8
145°	518.9	519.0	519.1	519.3	519.5	519.7	519.9
147.5°	535.1	535.2	535.3	535.4	535.5	535.6	535.7
150°	545.5	545.5	545.6	545.7	545.8	545.9	546.0
152.5°	554.8	555.0	555.0	555.0	554.9	554.8	554.8
155°	567.3	567.7	567.8	567.5	567.2	566.9	566.6
157.5°	578.0	578.6	578.6	578.0	577.5	577.0	576.5
160°	584.9	585.5	585.5	584.9	584.3	583.7	583.1
162.5°	590.4	591.0	591.0	590.3	589.6	588.9	588.2
165°	598.3	599.2	599.1	598.1	597.2	596.3	595.4
167.5°	604.1	605.0	604.9	603.9	602.9	601.9	600.9
170°	607.4	608.3	608.2	607.1	606.1	605.1	604.1
172.5°	609.7	610.5	610.4	609.3	608.1	607.0	605.9
175°	612.4	613.3	613.1	611.9	610.7	609.5	608.2
177.5°	613.1	613.8	613.6	612.7	611.7	610.7	609.8
180°	611.9	611.9	611.9	611.9	611.9	611.9	611.9

(END OF REPORT)