

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: P332985-840

Luminaire Tested: **S124RDIP-S1195D365U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332985-840
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: S124RDIP-S1195D365U840-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6536.0 lumens
Efficiency: N/A
Efficacy: 131.2 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

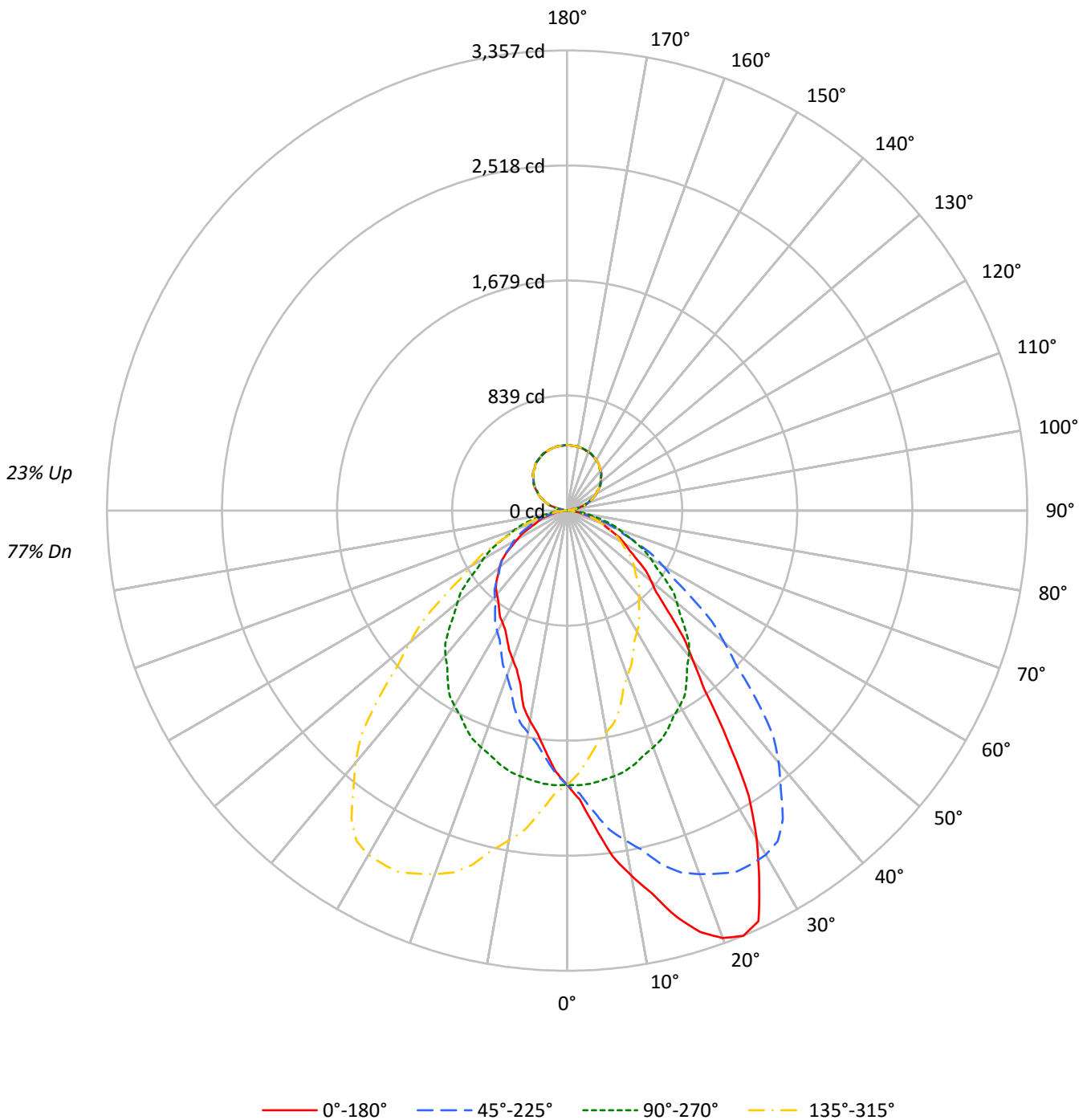
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	108	108	108	108	99	99	99	90	90	90	81	81	81	77
1	105	100	97	93	100	96	93	90	88	85	83	80	78	76	73	72	70	67
2	96	89	83	77	91	85	79	75	78	73	70	71	68	65	65	63	60	57
3	88	79	71	65	84	75	69	63	69	64	59	64	59	56	58	55	52	49
4	81	70	62	56	77	67	60	54	62	56	51	57	52	48	53	49	45	43
5	75	63	55	49	71	60	53	47	56	50	45	52	46	42	48	43	40	37
6	69	57	49	43	66	55	47	42	51	44	40	47	42	37	43	39	35	33
7	64	52	44	38	61	50	42	37	46	40	35	43	37	33	40	35	32	30
8	60	47	39	34	57	45	38	33	42	36	32	39	34	30	37	32	29	27
9	56	43	36	30	53	42	35	30	39	33	29	36	31	27	34	29	26	24
10	52	40	33	28	50	39	32	27	36	30	26	34	29	25	32	27	24	22

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	3.0
10°-20°	584.9	8.9
20°-30°	914.8	14.0
30°-40°	1017.0	15.6
40°-50°	902.3	13.8
50°-60°	703.1	10.8
60°-70°	460.3	7.0
70°-80°	226.4	3.5
80°-90°	57.2	0.9
90°-100°	16.3	0.2
100°-110°	104.1	1.6
110°-120°	199.1	3.0
120°-130°	252.7	3.9
130°-140°	270.4	4.1
140°-150°	252.8	3.9
150°-160°	203.9	3.1
160°-170°	131.5	2.0
170°-180°	45.3	0.7
0°-30°	1693.6	25.9
0°-40°	2710.6	41.5
0°-60°	4316.0	66.0
0°-90°	5060.0	77.4
90°-120°	319.5	4.9
90°-150°	1095.3	16.8
90°-180°	1476.0	22.6
0°-180°	6536.0	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°	11	1	11	1	11	7
95°	10	20	10	20	10	8
105°	102	107	102	107	102	89
115°	202	201	202	201	202	200
125°	284	282	284	282	284	253
135°	352	350	352	350	352	271
145°	406	403	406	403	406	253
155°	442	442	442	442	442	204
165°	464	466	464	466	464	131
175°	474	477	474	477	474	45
180°	477	477	477	477	477	



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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°	16.4	15.7	16.3	16.3	16.9	16.2	16.7	17.9	16.5	17.1	17.0
90°	10.7	10.5	10.4	10.2	10.1	9.8	9.3	8.8	8.3	7.9	7.2
92.5°	9.9	9.8	9.8	9.8	9.7	9.5	9.0	8.5	8.1	7.6	7.0
95°	10.3	10.3	10.2	10.1	10.0	9.8	9.3	8.8	8.3	7.9	7.8
97.5°	10.0	9.9	9.8	9.8	9.7	9.6	9.6	9.5	9.5	9.4	18.3
100°	10.0	9.9	9.8	9.8	9.7	10.3	11.6	13.0	14.3	15.8	26.7
102.5°	10.3	10.3	10.2	10.2	10.2	17.5	32.0	46.6	61.1	75.6	77.1
105°	101.7	104.5	107.4	110.3	113.1	114.2	113.5	112.8	112.1	111.4	111.0
107.5°	141.8	141.5	141.2	140.9	140.6	140.3	139.9	139.6	139.2	138.9	138.3
110°	159.2	159.0	158.8	158.4	158.2	158.0	157.8	157.7	157.5	157.4	156.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	176.6	176.3	176.0	175.7	175.4	175.2	175.3	175.3	175.3	175.4	175.1
115°	202.0	202.0	202.0	202.0	202.0	202.0	201.8	201.6	201.5	201.3	201.4
117.5°	227.8	227.9	227.9	227.9	227.9	228.0	228.0	228.0	228.1	228.1	227.9
120°	244.1	244.3	244.4	244.6	244.8	244.8	244.6	244.4	244.3	244.1	244.2
122.5°	260.1	260.2	260.4	260.5	260.7	260.7	260.6	260.5	260.4	260.4	260.2
125°	284.1	284.0	284.0	283.9	283.8	283.6	283.4	283.2	282.9	282.7	282.9
127.5°	305.2	305.2	305.3	305.4	305.4	305.5	305.5	305.6	305.6	305.7	305.3
130°	319.4	319.4	319.4	319.4	319.4	319.4	319.3	319.2	319.1	319.1	318.8
132.5°	332.5	332.6	332.6	332.8	332.9	332.9	332.8	332.6	332.5	332.4	332.1
135°	352.2	352.1	351.9	351.7	351.6	351.4	351.3	351.1	351.0	350.8	350.5
137.5°	369.1	369.1	369.2	369.2	369.3	369.2	369.1	368.9	368.7	368.5	368.2
140°	380.8	380.7	380.6	380.6	380.5	380.3	380.1	379.8	379.6	379.4	379.2
142.5°	390.5	390.5	390.5	390.5	390.4	390.3	390.2	390.0	389.8	389.7	389.6
145°	405.5	405.3	405.2	405.0	404.8	404.7	404.7	404.6	404.5	404.3	404.3
147.5°	417.8	417.7	417.6	417.6	417.5	417.4	417.4	417.3	417.2	417.2	417.2
150°	425.8	425.7	425.7	425.6	425.5	425.5	425.5	425.5	425.5	425.5	425.5
152.5°	432.6	432.7	432.7	432.7	432.8	432.8	432.6	432.5	432.4	432.3	432.4
155°	441.8	442.1	442.3	442.5	442.8	442.7	442.4	442.1	441.8	441.5	441.7
157.5°	449.6	450.0	450.4	450.8	451.2	451.2	450.8	450.4	450.0	449.6	449.8
160°	454.6	455.1	455.7	456.2	456.6	456.6	456.2	455.7	455.1	454.6	454.7
162.5°	458.7	459.2	459.8	460.3	460.8	460.9	460.4	459.9	459.5	459.0	459.1
165°	464.3	465.0	465.7	466.5	467.2	467.3	466.6	466.0	465.3	464.6	464.6
167.5°	468.6	469.3	470.1	470.9	471.7	471.7	471.1	470.4	469.7	469.0	469.0
170°	471.1	471.9	472.7	473.5	474.2	474.3	473.7	473.1	472.4	471.8	471.7
172.5°	472.5	473.4	474.2	475.1	475.9	476.1	475.4	474.8	474.1	473.5	473.4
175°	474.3	475.2	476.3	477.2	478.2	478.3	477.6	476.9	476.2	475.3	475.3
177.5°	475.4	476.3	477.0	477.8	478.5	478.7	478.2	477.7	477.2	476.6	476.5
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



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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°	16.8	16.1	17.2	17.1	17.5	19.9	21.7	22.1	20.4	18.6	16.9
90°	6.6	6.0	5.4	4.5	3.7	2.8	1.9	1.1	1.9	2.8	3.7
92.5°	6.3	5.7	5.0	4.6	4.6	4.5	4.5	4.5	4.5	4.5	4.6
95°	7.7	7.6	7.6	8.9	11.5	14.2	17.0	19.6	17.0	14.2	11.5
97.5°	27.2	36.0	44.8	48.4	46.8	45.0	43.3	41.7	43.3	45.0	46.8
100°	37.6	48.6	59.5	64.2	62.8	61.4	60.0	58.6	60.0	61.4	62.8
102.5°	78.6	80.0	81.4	81.6	80.5	79.5	78.5	77.4	78.5	79.5	80.5
105°	110.6	110.2	109.8	109.4	108.9	108.4	107.9	107.4	107.9	108.4	108.9
107.5°	137.7	137.2	136.6	136.3	136.0	135.8	135.5	135.3	135.5	135.8	136.0
110°	156.4	155.9	155.5	155.1	154.9	154.6	154.4	154.2	154.4	154.6	154.9



TEST NUMBER: P332985-840

CATALOG NUMBER: S124RDIP-S1195D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	174.9	174.7	174.5	174.2	173.7	173.3	172.9	172.5	172.9	173.3	173.7
115°	201.5	201.6	201.6	201.6	201.3	201.1	200.9	200.6	200.9	201.1	201.3
117.5°	227.8	227.6	227.4	227.2	226.9	226.5	226.2	225.9	226.2	226.5	226.9
120°	244.3	244.4	244.4	244.3	244.0	243.7	243.4	243.1	243.4	243.7	244.0
122.5°	260.1	260.0	259.9	259.8	259.6	259.4	259.2	259.0	259.2	259.4	259.6
125°	283.0	283.2	283.3	283.3	282.9	282.6	282.3	282.0	282.3	282.6	282.9
127.5°	304.9	304.6	304.2	304.0	303.9	303.8	303.8	303.7	303.8	303.8	303.9
130°	318.6	318.3	318.1	318.0	317.9	317.8	317.7	317.6	317.7	317.8	317.9
132.5°	331.8	331.5	331.2	331.0	330.9	330.7	330.6	330.5	330.6	330.7	330.9
135°	350.2	349.9	349.5	349.4	349.5	349.6	349.7	349.7	349.7	349.6	349.5
137.5°	367.8	367.5	367.2	367.0	366.9	366.9	366.9	366.8	366.9	366.9	366.9
140°	379.1	378.9	378.7	378.6	378.4	378.3	378.1	378.0	378.1	378.3	378.4
142.5°	389.5	389.4	389.3	389.1	388.8	388.5	388.2	388.0	388.2	388.5	388.8
145°	404.3	404.3	404.3	404.2	404.0	403.7	403.5	403.3	403.5	403.7	404.0
147.5°	417.3	417.4	417.5	417.3	416.9	416.4	416.0	415.5	416.0	416.4	416.9
150°	425.6	425.7	425.8	425.7	425.4	425.0	424.6	424.3	424.6	425.0	425.4
152.5°	432.5	432.7	432.8	432.8	432.5	432.3	432.0	431.8	432.0	432.3	432.5
155°	441.9	442.2	442.4	442.5	442.4	442.3	442.3	442.2	442.3	442.3	442.4
157.5°	450.1	450.4	450.6	450.8	450.8	450.9	450.9	451.0	450.9	450.9	450.8
160°	454.8	454.9	455.0	455.1	455.4	455.7	455.9	456.2	455.9	455.7	455.4
162.5°	459.1	459.2	459.3	459.5	459.8	460.1	460.4	460.7	460.4	460.1	459.8
165°	464.6	464.6	464.6	464.8	465.2	465.6	466.1	466.5	466.1	465.6	465.2
167.5°	469.1	469.1	469.2	469.4	469.8	470.2	470.6	471.0	470.6	470.2	469.8
170°	471.7	471.6	471.5	471.7	472.2	472.6	473.1	473.6	473.1	472.6	472.2
172.5°	473.4	473.3	473.2	473.4	473.9	474.3	474.8	475.3	474.8	474.3	473.9
175°	475.2	475.1	475.0	475.2	475.7	476.3	476.7	477.2	476.7	476.3	475.7
177.5°	476.4	476.3	476.1	476.3	476.7	477.2	477.6	478.1	477.6	477.2	476.7
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P332985-840

CATALOG NUMBER: S124RDIP-S1195D365U840-4F0-1E-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°	17.1	16.6	16.7	15.6	16.3	16.4	15.9	16.0	16.7	15.5	15.6
90°	4.5	5.4	6.0	6.6	7.2	7.9	8.3	8.8	9.3	9.8	10.1
92.5°	4.6	5.0	5.7	6.3	7.0	7.6	8.1	8.5	9.0	9.5	9.7
95°	8.9	7.6	7.6	7.7	7.8	7.9	8.3	8.8	9.3	9.8	10.0
97.5°	48.4	44.8	36.0	27.2	18.3	9.4	9.5	9.5	9.6	9.6	9.7
100°	64.2	59.5	48.6	37.6	26.7	15.8	14.3	13.0	11.6	10.3	9.7
102.5°	81.6	81.4	80.0	78.6	77.1	75.6	61.1	46.6	32.0	17.5	10.2
105°	109.4	109.8	110.2	110.6	111.0	111.4	112.1	112.8	113.5	114.2	113.1
107.5°	136.3	136.6	137.2	137.7	138.3	138.9	139.2	139.6	139.9	140.3	140.6
110°	155.1	155.5	155.9	156.4	156.9	157.4	157.5	157.7	157.8	158.0	158.2



TEST NUMBER: P332985-840

CATALOG NUMBER: S124RDIP-S1195D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	174.2	174.5	174.7	174.9	175.1	175.4	175.3	175.3	175.3	175.2	175.4
115°	201.6	201.6	201.6	201.5	201.4	201.3	201.5	201.6	201.8	202.0	202.0
117.5°	227.2	227.4	227.6	227.8	227.9	228.1	228.1	228.0	228.0	228.0	227.9
120°	244.3	244.4	244.4	244.3	244.2	244.1	244.3	244.4	244.6	244.8	244.8
122.5°	259.8	259.9	260.0	260.1	260.2	260.4	260.4	260.5	260.6	260.7	260.7
125°	283.3	283.3	283.2	283.0	282.9	282.7	282.9	283.2	283.4	283.6	283.8
127.5°	304.0	304.2	304.6	304.9	305.3	305.7	305.6	305.6	305.5	305.5	305.4
130°	318.0	318.1	318.3	318.6	318.8	319.1	319.1	319.2	319.3	319.4	319.4
132.5°	331.0	331.2	331.5	331.8	332.1	332.4	332.5	332.6	332.8	332.9	332.9
135°	349.4	349.5	349.9	350.2	350.5	350.8	351.0	351.1	351.3	351.4	351.6
137.5°	367.0	367.2	367.5	367.8	368.2	368.5	368.7	368.9	369.1	369.2	369.3
140°	378.6	378.7	378.9	379.1	379.2	379.4	379.6	379.8	380.1	380.3	380.5
142.5°	389.1	389.3	389.4	389.5	389.6	389.7	389.8	390.0	390.2	390.3	390.4
145°	404.2	404.3	404.3	404.3	404.3	404.3	404.5	404.6	404.7	404.7	404.8
147.5°	417.3	417.5	417.4	417.3	417.2	417.2	417.2	417.3	417.4	417.4	417.5
150°	425.7	425.8	425.7	425.6	425.5	425.5	425.5	425.5	425.5	425.5	425.5
152.5°	432.8	432.8	432.7	432.5	432.4	432.3	432.4	432.5	432.6	432.8	432.8
155°	442.5	442.4	442.2	441.9	441.7	441.5	441.8	442.1	442.4	442.7	442.8
157.5°	450.8	450.6	450.4	450.1	449.8	449.6	450.0	450.4	450.8	451.2	451.2
160°	455.1	455.0	454.9	454.8	454.7	454.6	455.1	455.7	456.2	456.6	456.6
162.5°	459.5	459.3	459.2	459.1	459.1	459.0	459.5	459.9	460.4	460.9	460.8
165°	464.8	464.6	464.6	464.6	464.6	464.6	465.3	466.0	466.6	467.3	467.2
167.5°	469.4	469.2	469.1	469.1	469.0	469.0	469.7	470.4	471.1	471.7	471.7
170°	471.7	471.5	471.6	471.7	471.7	471.8	472.4	473.1	473.7	474.3	474.2
172.5°	473.4	473.2	473.3	473.4	473.4	473.5	474.1	474.8	475.4	476.1	475.9
175°	475.2	475.0	475.1	475.2	475.3	475.3	476.2	476.9	477.6	478.3	478.2
177.5°	476.3	476.1	476.3	476.4	476.5	476.6	477.2	477.7	478.2	478.7	478.5
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P332985-840

CATALOG NUMBER: S124RDIP-S1195D365U840-4F0-1E-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°	16.9	16.3	15.7	16.4	15.7	16.3	16.9	15.6	15.5	16.7	16.0
90°	10.2	10.4	10.5	10.7	10.5	10.4	10.2	10.1	9.8	9.3	8.8
92.5°	9.8	9.8	9.8	9.9	9.8	9.8	9.8	9.7	9.5	9.0	8.5
95°	10.1	10.2	10.3	10.3	10.3	10.2	10.1	10.0	9.8	9.3	8.8
97.5°	9.8	9.8	9.9	10.0	9.9	9.8	9.8	9.7	9.6	9.6	9.5
100°	9.8	9.8	9.9	10.0	9.9	9.8	9.8	9.7	10.3	11.6	13.0
102.5°	10.2	10.2	10.3	10.3	10.3	10.2	10.2	10.2	17.5	32.0	46.6
105°	110.3	107.4	104.5	101.7	104.5	107.4	110.3	113.1	114.2	113.5	112.8
107.5°	140.9	141.2	141.5	141.8	141.5	141.2	140.9	140.6	140.3	139.9	139.6
110°	158.4	158.8	159.0	159.2	159.0	158.8	158.4	158.2	158.0	157.8	157.7



TEST NUMBER: P332985-840

CATALOG NUMBER: S124RDIP-S1195D365U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	175.7	176.0	176.3	176.6	176.3	176.0	175.7	175.4	175.2	175.3	175.3
115°	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	201.8	201.6
117.5°	227.9	227.9	227.9	227.8	227.9	227.9	227.9	227.9	228.0	228.0	228.0
120°	244.6	244.4	244.3	244.1	244.3	244.4	244.6	244.8	244.8	244.6	244.4
122.5°	260.5	260.4	260.2	260.1	260.2	260.4	260.5	260.7	260.7	260.6	260.5
125°	283.9	284.0	284.0	284.1	284.0	284.0	283.9	283.8	283.6	283.4	283.2
127.5°	305.4	305.3	305.2	305.2	305.2	305.3	305.4	305.4	305.5	305.5	305.6
130°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.4	319.3	319.2
132.5°	332.8	332.6	332.6	332.5	332.6	332.6	332.8	332.9	332.9	332.8	332.6
135°	351.7	351.9	352.1	352.2	352.1	351.9	351.7	351.6	351.4	351.3	351.1
137.5°	369.2	369.2	369.1	369.1	369.1	369.2	369.2	369.3	369.2	369.1	368.9
140°	380.6	380.6	380.7	380.8	380.7	380.6	380.6	380.5	380.3	380.1	379.8
142.5°	390.5	390.5	390.5	390.5	390.5	390.5	390.5	390.4	390.3	390.2	390.0
145°	405.0	405.2	405.3	405.5	405.3	405.2	405.0	404.8	404.7	404.7	404.6
147.5°	417.6	417.6	417.7	417.8	417.7	417.6	417.6	417.5	417.4	417.4	417.3
150°	425.6	425.7	425.7	425.8	425.7	425.7	425.6	425.5	425.5	425.5	425.5
152.5°	432.7	432.7	432.7	432.6	432.7	432.7	432.7	432.8	432.8	432.6	432.5
155°	442.5	442.3	442.1	441.8	442.1	442.3	442.5	442.8	442.7	442.4	442.1
157.5°	450.8	450.4	450.0	449.6	450.0	450.4	450.8	451.2	451.2	450.8	450.4
160°	456.2	455.7	455.1	454.6	455.1	455.7	456.2	456.6	456.6	456.2	455.7
162.5°	460.3	459.8	459.2	458.7	459.2	459.8	460.3	460.8	460.9	460.4	459.9
165°	466.5	465.7	465.0	464.3	465.0	465.7	466.5	467.2	467.3	466.6	466.0
167.5°	470.9	470.1	469.3	468.6	469.3	470.1	470.9	471.7	471.7	471.1	470.4
170°	473.5	472.7	471.9	471.1	471.9	472.7	473.5	474.2	474.3	473.7	473.1
172.5°	475.1	474.2	473.4	472.5	473.4	474.2	475.1	475.9	476.1	475.4	474.8
175°	477.2	476.3	475.2	474.3	475.2	476.3	477.2	478.2	478.3	477.6	476.9
177.5°	477.8	477.0	476.3	475.4	476.3	477.0	477.8	478.5	478.7	478.2	477.7
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P332985-840

CATALOG NUMBER: S124RDIP-S1195D365U840-4F0-1E-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°	15.9	16.4	16.3	15.6	16.7	16.6	17.1	16.9	18.6	20.4	22.1
90°	8.3	7.9	7.2	6.6	6.0	5.4	4.5	3.7	2.8	1.9	1.1
92.5°	8.1	7.6	7.0	6.3	5.7	5.0	4.6	4.6	4.5	4.5	4.5
95°	8.3	7.9	7.8	7.7	7.6	7.6	8.9	11.5	14.2	17.0	19.6
97.5°	9.5	9.4	18.3	27.2	36.0	44.8	48.4	46.8	45.0	43.3	41.7
100°	14.3	15.8	26.7	37.6	48.6	59.5	64.2	62.8	61.4	60.0	58.6
102.5°	61.1	75.6	77.1	78.6	80.0	81.4	81.6	80.5	79.5	78.5	77.4
105°	112.1	111.4	111.0	110.6	110.2	109.8	109.4	108.9	108.4	107.9	107.4
107.5°	139.2	138.9	138.3	137.7	137.2	136.6	136.3	136.0	135.8	135.5	135.3
110°	157.5	157.4	156.9	156.4	155.9	155.5	155.1	154.9	154.6	154.4	154.2



TEST NUMBER: P332985-840

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	175.3	175.4	175.1	174.9	174.7	174.5	174.2	173.7	173.3	172.9	172.5
115°	201.5	201.3	201.4	201.5	201.6	201.6	201.6	201.3	201.1	200.9	200.6
117.5°	228.1	228.1	227.9	227.8	227.6	227.4	227.2	226.9	226.5	226.2	225.9
120°	244.3	244.1	244.2	244.3	244.4	244.4	244.3	244.0	243.7	243.4	243.1
122.5°	260.4	260.4	260.2	260.1	260.0	259.9	259.8	259.6	259.4	259.2	259.0
125°	282.9	282.7	282.9	283.0	283.2	283.3	283.3	282.9	282.6	282.3	282.0
127.5°	305.6	305.7	305.3	304.9	304.6	304.2	304.0	303.9	303.8	303.8	303.7
130°	319.1	319.1	318.8	318.6	318.3	318.1	318.0	317.9	317.8	317.7	317.6
132.5°	332.5	332.4	332.1	331.8	331.5	331.2	331.0	330.9	330.7	330.6	330.5
135°	351.0	350.8	350.5	350.2	349.9	349.5	349.4	349.5	349.6	349.7	349.7
137.5°	368.7	368.5	368.2	367.8	367.5	367.2	367.0	366.9	366.9	366.9	366.8
140°	379.6	379.4	379.2	379.1	378.9	378.7	378.6	378.4	378.3	378.1	378.0
142.5°	389.8	389.7	389.6	389.5	389.4	389.3	389.1	388.8	388.5	388.2	388.0
145°	404.5	404.3	404.3	404.3	404.3	404.3	404.2	404.0	403.7	403.5	403.3
147.5°	417.2	417.2	417.2	417.3	417.4	417.5	417.3	416.9	416.4	416.0	415.5
150°	425.5	425.5	425.5	425.6	425.7	425.8	425.7	425.4	425.0	424.6	424.3
152.5°	432.4	432.3	432.4	432.5	432.7	432.8	432.8	432.5	432.3	432.0	431.8
155°	441.8	441.5	441.7	441.9	442.2	442.4	442.5	442.4	442.3	442.3	442.2
157.5°	450.0	449.6	449.8	450.1	450.4	450.6	450.8	450.8	450.9	450.9	451.0
160°	455.1	454.6	454.7	454.8	454.9	455.0	455.1	455.4	455.7	455.9	456.2
162.5°	459.5	459.0	459.1	459.1	459.2	459.3	459.5	459.8	460.1	460.4	460.7
165°	465.3	464.6	464.6	464.6	464.6	464.6	464.8	465.2	465.6	466.1	466.5
167.5°	469.7	469.0	469.0	469.1	469.1	469.2	469.4	469.8	470.2	470.6	471.0
170°	472.4	471.8	471.7	471.7	471.6	471.5	471.7	472.2	472.6	473.1	473.6
172.5°	474.1	473.5	473.4	473.4	473.3	473.2	473.4	473.9	474.3	474.8	475.3
175°	476.2	475.3	475.3	475.2	475.1	475.0	475.2	475.7	476.3	476.7	477.2
177.5°	477.2	476.6	476.5	476.4	476.3	476.1	476.3	476.7	477.2	477.6	478.1
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P332985-840

CATALOG NUMBER: S124RDIP-S1195D365U840-4F0-1E-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°	21.7	19.9	17.5	17.1	17.2	16.1	16.8	17.0	17.1	16.5	17.9
90°	1.9	2.8	3.7	4.5	5.4	6.0	6.6	7.2	7.9	8.3	8.8
92.5°	4.5	4.5	4.6	4.6	5.0	5.7	6.3	7.0	7.6	8.1	8.5
95°	17.0	14.2	11.5	8.9	7.6	7.6	7.7	7.8	7.9	8.3	8.8
97.5°	43.3	45.0	46.8	48.4	44.8	36.0	27.2	18.3	9.4	9.5	9.5
100°	60.0	61.4	62.8	64.2	59.5	48.6	37.6	26.7	15.8	14.3	13.0
102.5°	78.5	79.5	80.5	81.6	81.4	80.0	78.6	77.1	75.6	61.1	46.6
105°	107.9	108.4	108.9	109.4	109.8	110.2	110.6	111.0	111.4	112.1	112.8
107.5°	135.5	135.8	136.0	136.3	136.6	137.2	137.7	138.3	138.9	139.2	139.6
110°	154.4	154.6	154.9	155.1	155.5	155.9	156.4	156.9	157.4	157.5	157.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	172.9	173.3	173.7	174.2	174.5	174.7	174.9	175.1	175.4	175.3	175.3
115°	200.9	201.1	201.3	201.6	201.6	201.6	201.5	201.4	201.3	201.5	201.6
117.5°	226.2	226.5	226.9	227.2	227.4	227.6	227.8	227.9	228.1	228.1	228.0
120°	243.4	243.7	244.0	244.3	244.4	244.4	244.3	244.2	244.1	244.3	244.4
122.5°	259.2	259.4	259.6	259.8	259.9	260.0	260.1	260.2	260.4	260.4	260.5
125°	282.3	282.6	282.9	283.3	283.3	283.2	283.0	282.9	282.7	282.9	283.2
127.5°	303.8	303.8	303.9	304.0	304.2	304.6	304.9	305.3	305.7	305.6	305.6
130°	317.7	317.8	317.9	318.0	318.1	318.3	318.6	318.8	319.1	319.1	319.2
132.5°	330.6	330.7	330.9	331.0	331.2	331.5	331.8	332.1	332.4	332.5	332.6
135°	349.7	349.6	349.5	349.4	349.5	349.9	350.2	350.5	350.8	351.0	351.1
137.5°	366.9	366.9	366.9	367.0	367.2	367.5	367.8	368.2	368.5	368.7	368.9
140°	378.1	378.3	378.4	378.6	378.7	378.9	379.1	379.2	379.4	379.6	379.8
142.5°	388.2	388.5	388.8	389.1	389.3	389.4	389.5	389.6	389.7	389.8	390.0
145°	403.5	403.7	404.0	404.2	404.3	404.3	404.3	404.3	404.3	404.5	404.6
147.5°	416.0	416.4	416.9	417.3	417.5	417.4	417.3	417.2	417.2	417.2	417.3
150°	424.6	425.0	425.4	425.7	425.8	425.7	425.6	425.5	425.5	425.5	425.5
152.5°	432.0	432.3	432.5	432.8	432.8	432.7	432.5	432.4	432.3	432.4	432.5
155°	442.3	442.3	442.4	442.5	442.4	442.2	441.9	441.7	441.5	441.8	442.1
157.5°	450.9	450.9	450.8	450.8	450.6	450.4	450.1	449.8	449.6	450.0	450.4
160°	455.9	455.7	455.4	455.1	455.0	454.9	454.8	454.7	454.6	455.1	455.7
162.5°	460.4	460.1	459.8	459.5	459.3	459.2	459.1	459.1	459.0	459.5	459.9
165°	466.1	465.6	465.2	464.8	464.6	464.6	464.6	464.6	464.6	465.3	466.0
167.5°	470.6	470.2	469.8	469.4	469.2	469.1	469.1	469.0	469.0	469.7	470.4
170°	473.1	472.6	472.2	471.7	471.5	471.6	471.7	471.7	471.8	472.4	473.1
172.5°	474.8	474.3	473.9	473.4	473.2	473.3	473.4	473.4	473.5	474.1	474.8
175°	476.7	476.3	475.7	475.2	475.0	475.1	475.2	475.3	475.3	476.2	476.9
177.5°	477.6	477.2	476.7	476.3	476.1	476.3	476.4	476.5	476.6	477.2	477.7
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



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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°	16.7	16.2	16.9	16.3	16.3	15.7	16.4
90°	9.3	9.8	10.1	10.2	10.4	10.5	10.7
92.5°	9.0	9.5	9.7	9.8	9.8	9.8	9.9
95°	9.3	9.8	10.0	10.1	10.2	10.3	10.3
97.5°	9.6	9.6	9.7	9.8	9.8	9.9	10.0
100°	11.6	10.3	9.7	9.8	9.8	9.9	10.0
102.5°	32.0	17.5	10.2	10.2	10.2	10.3	10.3
105°	113.5	114.2	113.1	110.3	107.4	104.5	101.7
107.5°	139.9	140.3	140.6	140.9	141.2	141.5	141.8
110°	157.8	158.0	158.2	158.4	158.8	159.0	159.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	175.3	175.2	175.4	175.7	176.0	176.3	176.6
115°	201.8	202.0	202.0	202.0	202.0	202.0	202.0
117.5°	228.0	228.0	227.9	227.9	227.9	227.9	227.8
120°	244.6	244.8	244.8	244.6	244.4	244.3	244.1
122.5°	260.6	260.7	260.7	260.5	260.4	260.2	260.1
125°	283.4	283.6	283.8	283.9	284.0	284.0	284.1
127.5°	305.5	305.5	305.4	305.4	305.3	305.2	305.2
130°	319.3	319.4	319.4	319.4	319.4	319.4	319.4
132.5°	332.8	332.9	332.9	332.8	332.6	332.6	332.5
135°	351.3	351.4	351.6	351.7	351.9	352.1	352.2
137.5°	369.1	369.2	369.3	369.2	369.2	369.1	369.1
140°	380.1	380.3	380.5	380.6	380.6	380.7	380.8
142.5°	390.2	390.3	390.4	390.5	390.5	390.5	390.5
145°	404.7	404.7	404.8	405.0	405.2	405.3	405.5
147.5°	417.4	417.4	417.5	417.6	417.6	417.7	417.8
150°	425.5	425.5	425.5	425.6	425.7	425.7	425.8
152.5°	432.6	432.8	432.8	432.7	432.7	432.7	432.6
155°	442.4	442.7	442.8	442.5	442.3	442.1	441.8
157.5°	450.8	451.2	451.2	450.8	450.4	450.0	449.6
160°	456.2	456.6	456.6	456.2	455.7	455.1	454.6
162.5°	460.4	460.9	460.8	460.3	459.8	459.2	458.7
165°	466.6	467.3	467.2	466.5	465.7	465.0	464.3
167.5°	471.1	471.7	471.7	470.9	470.1	469.3	468.6
170°	473.7	474.3	474.2	473.5	472.7	471.9	471.1
172.5°	475.4	476.1	475.9	475.1	474.2	473.4	472.5
175°	477.6	478.3	478.2	477.2	476.3	475.2	474.3
177.5°	478.2	478.7	478.5	477.8	477.0	476.3	475.4
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2

(END OF REPORT)