

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: P333721-840

Luminaire Tested: **S125RDIW-S1270D470U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333721-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDIW-S1270D470U840-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1270 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6610.8 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.22 / 1.47
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: Semi-Direct

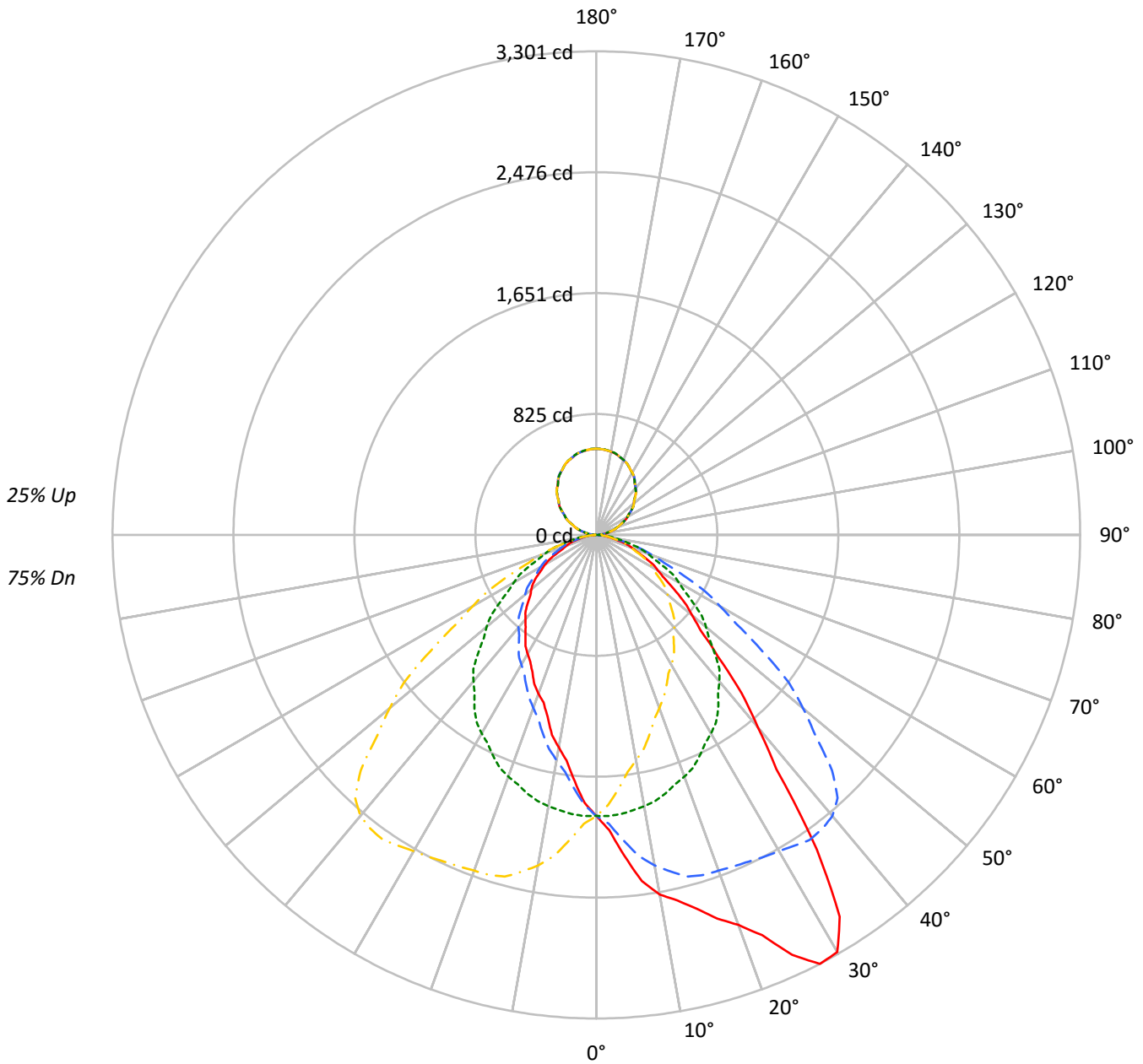
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75	75	75	75	75	75	75		
1	104	100	96	93	99	95	92	89	87	84	82	79	77	75	71	70	68	65	65	65	65	65	65	65		
2	95	88	82	77	90	84	79	74	77	72	69	70	66	63	63	61	58	55	55	55	55	55	55	55		
3	87	78	70	65	83	74	68	62	68	63	58	62	58	54	57	53	50	47	47	47	47	47	47	47		
4	80	69	61	55	76	66	59	54	61	55	50	56	51	47	51	47	44	41	41	41	41	41	41	41		
5	74	62	54	48	70	60	52	46	55	48	44	50	45	41	46	42	38	36	36	36	36	36	36	36		
6	68	56	48	42	65	54	46	41	50	43	38	46	40	36	42	38	34	32	32	32	32	32	32	32		
7	63	51	43	37	60	49	41	36	45	39	34	42	36	32	38	34	30	28	28	28	28	28	28	28		
8	59	46	38	33	56	45	37	32	41	35	31	38	33	29	35	31	27	25	25	25	25	25	25	25		
9	55	42	35	30	52	41	34	29	38	32	27	35	30	26	33	28	25	23	23	23	23	23	23	23		
10	51	39	32	27	49	38	31	26	35	29	25	33	27	24	30	26	23	21	21	21	21	21	21	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12385	12385	12385	12385
5°	14249	12401	10952	12401
10°	16344	12338	9664	12338
15°	17653	12211	8590	12211
20°	19467	12065	7932	12065
25°	22528	11870	7360	11870
30°	24515	11665	6986	11665
35°	20679	11427	6641	11427
40°	14441	10997	6345	10997
45°	10714	10418	6054	10418
50°	8542	9815	5805	9815
55°	7250	9067	5584	9067
60°	6263	8400	5227	8400
65°	5582	7674	4499	7674
70°	4904	7030	4101	7030
75°	4245	6089	3850	6089
80°	3217	5121	3217	5121
85°	2690	4024	3031	4024



TEST NUMBER: P333721-840

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	2.8
10°-20°	538.9	8.2
20°-30°	854.5	12.9
30°-40°	1030.4	15.6
40°-50°	920.2	13.9
50°-60°	705.7	10.7
60°-70°	458.6	6.9
70°-80°	223.0	3.4
80°-90°	54.5	0.8
90°-100°	39.4	0.6
100°-110°	116.3	1.8
110°-120°	197.1	3.0
120°-130°	259.3	3.9
130°-140°	290.6	4.4
140°-150°	284.8	4.3
150°-160°	239.2	3.6
160°-170°	159.0	2.4
170°-180°	55.6	0.8
0°-30°	1577.3	23.9
0°-40°	2607.7	39.4
0°-60°	4233.5	64.0
0°-90°	4969.6	75.2
90°-120°	352.8	5.3
90°-150°	1187.4	18.0
90°-180°	1641.0	24.8
0°-180°	6610.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1918	1918	1918	1918	1918	
5°	2198	1913	1689	1913	2198	220
15°	2640	1826	1285	1826	2640	757
25°	3161	1666	1033	1666	3161	1452
35°	2623	1449	842	1449	2623	1584
45°	1173	1141	663	1141	1173	936
55°	644	805	496	805	644	584
65°	365	502	294	502	365	363
75°	170	244	154	244	170	181
85°	36	54	41	54	36	42
90°	11	0	11	0	11	8
95°	39	30	39	30	39	40
105°	114	104	114	104	114	120
115°	199	197	199	197	199	197
125°	290	288	290	288	290	259
135°	376	374	376	374	376	290
145°	455	454	455	454	455	284
155°	519	519	519	519	519	239
165°	563	564	563	564	563	159
175°	584	587	584	587	584	56
180°	588	588	588	588	588	



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	2017.1	2015.9	2018.4	2011.4	2012.1	2001.4	2001.4	1993.2	1982.5	1974.3	1970.5
5°	2197.9	2199.5	2196.3	2184.4	2176.7	2164.8	2151.4	2127.8	2108.1	2089.2	2074.3
7.5°	2384.0	2385.1	2374.7	2371.1	2351.2	2336.7	2306.9	2274.8	2246.3	2210.2	2182.4
10°	2492.2	2491.5	2480.4	2471.8	2454.5	2432.5	2403.4	2365.5	2330.2	2290.8	2253.0
12.5°	2555.3	2553.2	2549.7	2539.2	2523.1	2503.7	2478.9	2441.8	2398.1	2355.0	2310.9
15°	2640.3	2634.7	2624.5	2611.1	2588.3	2565.5	2537.9	2504.9	2463.2	2414.4	2373.4
17.5°	2745.4	2745.6	2729.9	2711.3	2680.3	2640.0	2597.5	2544.1	2487.4	2433.7	2390.1
20°	2832.4	2829.9	2814.3	2778.0	2742.6	2692.2	2643.4	2578.1	2508.8	2438.7	2384.4
22.5°	2957.1	2950.9	2934.6	2887.0	2832.1	2767.1	2692.5	2612.7	2529.0	2449.4	2378.1
25°	3161.4	3156.6	3124.4	3069.3	2992.1	2892.2	2794.6	2685.1	2564.8	2460.0	2373.4
27.5°	3301.2	3296.0	3272.1	3226.3	3155.1	3049.9	2917.8	2771.6	2621.2	2477.2	2352.3
30°	3287.3	3299.1	3296.0	3274.8	3221.3	3126.7	3004.8	2840.2	2661.5	2492.2	2343.5
32.5°	3089.6	3100.2	3127.9	3169.6	3172.7	3134.9	3043.8	2891.8	2706.8	2514.4	2336.5
35°	2622.9	2637.2	2690.7	2774.9	2885.1	2977.2	2996.1	2914.3	2748.1	2541.1	2326.2
37.5°	2016.5	2094.0	2139.0	2227.7	2394.2	2563.6	2726.5	2786.5	2715.8	2530.1	2309.4
40°	1712.9	1731.8	1812.1	1912.1	2052.2	2228.6	2460.8	2628.5	2633.9	2504.9	2282.9
42.5°	1466.1	1490.1	1545.1	1625.0	1744.9	1921.3	2161.0	2382.3	2484.8	2435.6	2248.3
45°	1173.0	1191.0	1231.2	1292.6	1384.7	1530.3	1736.6	1992.4	2195.5	2275.0	2155.4
47.5°	963.5	973.3	1008.2	1055.0	1123.2	1229.3	1389.0	1611.0	1854.6	2025.5	2008.6
50°	850.2	861.2	888.0	923.4	980.9	1070.6	1198.1	1383.1	1634.3	1842.8	1884.6
52.5°	762.0	771.1	787.8	821.3	868.8	937.8	1040.7	1208.0	1434.0	1655.8	1752.3
55°	643.9	650.3	663.6	682.5	720.3	769.9	858.8	974.5	1157.2	1380.8	1522.5
57.5°	546.6	549.8	558.3	575.7	601.9	638.1	702.4	800.4	931.4	1132.8	1289.1
60°	484.9	488.1	499.1	510.9	531.4	564.4	614.8	683.3	809.2	975.3	1133.6
62.5°	435.8	437.7	442.4	454.2	472.2	497.7	537.3	593.2	693.4	839.3	988.8
65°	365.3	366.1	367.6	377.1	388.1	407.0	432.9	472.3	547.9	658.1	790.3
67.5°	297.6	298.6	304.2	307.5	319.0	328.9	344.2	374.3	427.5	501.8	604.6
70°	259.7	259.0	264.5	268.4	272.4	284.2	294.4	318.8	351.8	408.6	494.3
72.5°	224.5	222.5	224.8	226.2	231.5	239.4	249.7	264.7	290.1	329.2	394.9
75°	170.1	170.9	170.9	172.4	176.3	179.5	182.6	190.5	204.7	230.7	266.1
77.5°	119.4	118.1	121.4	121.9	124.2	127.6	130.4	133.5	139.4	150.1	168.3
80°	86.5	86.5	87.4	89.8	89.0	90.5	94.4	97.7	104.7	111.0	117.2
82.5°	66.4	65.8	66.6	67.1	67.0	68.5	69.9	70.5	73.2	76.3	80.8
85°	36.3	36.3	37.0	37.0	37.8	37.8	38.6	38.6	38.6	39.4	40.2
87.5°	16.1	15.3	14.6	14.6	15.1	16.4	15.7	14.8	14.7	14.6	15.1
90°	11.0	10.7	10.4	10.1	9.8	9.4	8.9	8.4	7.9	7.4	6.6
92.5°	21.6	21.4	21.1	20.9	20.7	20.3	19.6	18.9	18.3	17.6	16.7
95°	39.4	39.2	39.0	38.8	38.6	38.1	37.4	36.7	36.0	35.2	34.2
97.5°	59.7	59.6	59.5	59.3	59.2	58.8	58.2	57.5	56.8	56.1	54.7
100°	75.0	74.8	74.6	74.4	74.2	73.7	72.8	71.9	71.0	70.0	68.7
102.5°	90.5	90.2	89.9	89.6	89.3	88.7	87.7	86.6	85.6	84.6	84.0
105°	113.5	113.2	112.9	112.6	112.3	111.8	111.2	110.6	110.0	109.4	108.8
107.5°	137.1	137.1	137.1	137.2	137.2	137.0	136.7	136.4	136.1	135.8	135.4
110°	154.7	154.8	154.9	155.0	155.1	155.0	154.7	154.4	154.1	153.8	153.5



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	171.9	172.1	172.3	172.5	172.7	172.7	172.5	172.4	172.3	172.1	171.7
115°	199.1	199.2	199.3	199.4	199.5	199.7	199.8	199.9	200.0	200.1	199.9
117.5°	225.6	226.0	226.5	226.9	227.3	227.4	227.3	227.3	227.2	227.1	226.9
120°	244.0	244.4	244.8	245.2	245.6	245.8	245.8	245.8	245.8	245.8	245.7
122.5°	262.3	262.6	263.0	263.3	263.6	263.8	263.9	264.0	264.0	264.1	263.9
125°	289.7	289.8	289.9	290.0	290.1	290.3	290.5	290.7	290.9	291.1	291.0
127.5°	316.1	316.3	316.5	316.7	316.9	317.1	317.2	317.3	317.4	317.5	317.3
130°	333.7	333.9	334.1	334.3	334.5	334.7	334.8	334.9	335.0	335.1	334.9
132.5°	350.1	350.4	350.7	351.0	351.3	351.4	351.5	351.6	351.7	351.8	351.9
135°	375.8	376.2	376.6	377.0	377.4	377.6	377.6	377.6	377.6	377.6	377.5
137.5°	400.8	401.3	401.9	402.4	402.9	403.1	402.9	402.8	402.7	402.6	402.3
140°	417.0	417.5	418.0	418.5	419.0	419.2	419.0	418.8	418.6	418.4	418.1
142.5°	432.3	432.8	433.3	433.8	434.3	434.5	434.4	434.3	434.2	434.1	433.7
145°	455.4	455.8	456.1	456.4	456.7	456.8	456.8	456.8	456.8	456.8	456.5
147.5°	475.1	475.7	476.5	477.2	477.9	478.1	477.9	477.6	477.4	477.2	476.9
150°	489.8	490.0	490.2	490.4	490.6	490.7	490.7	490.7	490.7	490.7	490.3
152.5°	501.8	502.2	502.6	502.9	503.3	503.3	503.1	502.9	502.6	502.4	502.2
155°	519.1	519.6	520.1	520.6	521.1	521.1	520.7	520.3	519.9	519.5	519.4
157.5°	533.4	534.1	534.7	535.4	536.1	536.2	535.8	535.4	535.0	534.6	534.5
160°	543.3	543.8	544.3	544.8	545.3	545.4	545.0	544.6	544.2	543.7	543.6
162.5°	551.7	552.3	552.9	553.5	554.1	554.1	553.6	553.2	552.7	552.2	552.2
165°	563.0	563.6	564.2	564.8	565.4	565.5	565.1	564.7	564.3	563.9	563.8
167.5°	572.0	572.6	573.2	573.8	574.5	574.5	573.9	573.3	572.7	572.1	572.1
170°	576.7	577.4	578.1	578.9	579.6	579.7	579.0	578.3	577.7	577.1	577.1
172.5°	580.8	581.4	582.0	582.6	583.3	583.3	582.7	582.1	581.5	580.9	580.9
175°	584.5	585.2	585.9	586.6	587.3	587.4	586.8	586.1	585.5	584.9	584.9
177.5°	586.7	587.2	587.8	588.4	589.0	589.1	588.5	588.0	587.5	587.0	587.1
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1970.5	1966.1	1957.9	1950.4	1941.0	1932.8	1927.0	1920.2	1911.4	1900.7	1891.8
5°	2057.7	2040.4	2017.6	1997.9	1972.8	1953.1	1932.6	1912.9	1893.2	1868.0	1846.0
7.5°	2154.4	2118.7	2083.9	2040.1	2000.4	1965.0	1931.0	1896.5	1862.8	1827.0	1792.6
10°	2213.6	2170.3	2122.3	2067.2	2016.8	1968.8	1924.7	1881.4	1835.7	1795.6	1752.3
12.5°	2269.1	2213.1	2158.2	2088.6	2028.1	1969.4	1913.4	1859.4	1810.6	1758.5	1712.0
15°	2319.1	2264.0	2202.6	2117.6	2033.4	1962.5	1896.3	1826.3	1765.6	1707.5	1655.5
17.5°	2338.4	2280.7	2209.4	2127.7	2035.6	1946.4	1861.3	1784.4	1713.1	1645.3	1586.8
20°	2330.9	2275.0	2201.8	2123.8	2025.5	1932.6	1840.5	1755.4	1676.0	1604.3	1542.2
22.5°	2312.7	2254.8	2184.1	2101.8	2008.4	1910.0	1811.5	1720.8	1637.5	1563.4	1495.5
25°	2285.2	2206.6	2134.1	2053.8	1964.9	1867.2	1765.6	1665.7	1576.8	1501.2	1427.2
27.5°	2256.7	2158.5	2066.4	1986.6	1892.6	1805.5	1707.6	1605.1	1511.6	1434.6	1358.7
30°	2230.9	2120.7	2019.1	1928.6	1839.7	1757.1	1664.2	1564.2	1468.1	1388.7	1311.5
32.5°	2198.8	2081.6	1970.0	1865.6	1779.9	1697.9	1613.8	1518.2	1424.7	1342.6	1264.3
35°	2158.5	2008.9	1887.7	1776.8	1681.4	1601.9	1526.4	1449.3	1355.5	1270.5	1194.2
37.5°	2105.6	1935.9	1795.6	1674.7	1574.3	1494.4	1434.7	1364.2	1278.7	1197.3	1126.5
40°	2073.5	1883.0	1729.5	1609.8	1504.3	1420.1	1364.2	1304.4	1226.5	1150.1	1079.2
42.5°	2030.6	1834.5	1662.7	1538.0	1431.9	1350.8	1294.3	1242.0	1176.7	1104.8	1028.9
45°	1946.7	1740.5	1560.2	1426.4	1319.4	1239.8	1187.1	1140.6	1091.1	1024.9	958.8
47.5°	1837.4	1642.4	1453.8	1307.7	1202.9	1129.0	1077.8	1041.2	1005.7	949.5	885.2
50°	1750.0	1561.9	1377.6	1235.9	1124.1	1054.1	1006.0	976.9	944.6	893.4	839.9
52.5°	1646.7	1478.6	1298.3	1153.4	1047.9	982.3	936.1	907.1	880.4	838.7	787.7
55°	1483.9	1336.7	1171.3	1039.9	943.1	877.0	832.8	805.3	789.6	754.2	714.0
57.5°	1296.1	1190.5	1044.8	918.1	832.4	767.1	734.8	711.3	693.6	668.5	640.2
60°	1165.1	1091.1	960.4	839.9	761.2	699.0	669.9	650.3	633.7	612.5	590.4
62.5°	1032.2	978.4	864.6	761.2	688.8	636.7	609.5	591.7	572.6	558.3	536.8
65°	854.1	806.1	727.4	646.3	579.4	537.7	518.0	502.2	490.4	474.6	459.7
67.5°	664.4	644.9	590.6	534.6	486.7	449.5	432.5	421.5	407.3	397.9	387.6
70°	547.9	538.5	499.9	462.9	418.0	392.8	377.1	372.3	355.1	345.6	338.5
72.5°	444.6	440.2	418.0	392.3	360.7	338.6	324.2	318.8	307.8	300.2	295.7
75°	304.7	306.2	302.3	285.8	274.0	259.7	247.2	244.0	236.2	229.8	225.9
77.5°	192.7	200.8	201.1	200.3	195.5	186.9	181.7	179.4	171.6	169.3	168.3
80°	132.3	140.9	148.8	147.9	146.4	144.1	140.2	137.7	133.8	131.5	129.9
82.5°	88.2	96.2	102.8	107.0	106.7	104.4	101.7	100.6	99.8	98.1	97.8
85°	41.7	43.3	45.6	51.2	55.1	55.8	55.1	54.3	51.9	52.7	53.5
87.5°	15.7	15.6	16.1	15.9	15.0	18.1	19.8	20.2	19.2	18.1	17.0
90°	5.9	5.2	4.4	3.7	2.9	2.1	1.3	0.5	1.3	2.1	2.9
92.5°	15.9	14.9	14.0	13.3	12.8	12.2	11.6	11.1	11.6	12.2	12.8
95°	33.2	32.2	31.2	30.6	30.4	30.2	30.0	29.8	30.0	30.2	30.4
97.5°	53.3	51.9	50.5	49.8	49.7	49.6	49.5	49.4	49.5	49.6	49.7
100°	67.4	66.0	64.7	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
102.5°	83.3	82.7	82.0	81.5	81.1	80.7	80.2	79.8	80.2	80.7	81.1
105°	108.2	107.6	106.9	106.4	105.8	105.3	104.8	104.3	104.8	105.3	105.8
107.5°	134.9	134.4	134.0	133.5	133.0	132.5	132.0	131.5	132.0	132.5	133.0
110°	153.2	152.9	152.6	152.2	151.7	151.2	150.7	150.2	150.7	151.2	151.7



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	171.4	171.0	170.6	170.3	170.0	169.7	169.5	169.2	169.5	169.7	170.0
115°	199.7	199.4	199.2	198.9	198.5	198.1	197.6	197.2	197.6	198.1	198.5
117.5°	226.7	226.6	226.4	226.2	226.0	225.8	225.6	225.5	225.6	225.8	226.0
120°	245.6	245.5	245.4	245.1	244.6	244.1	243.6	243.1	243.6	244.1	244.6
122.5°	263.6	263.3	263.1	262.8	262.7	262.5	262.3	262.1	262.3	262.5	262.7
125°	290.9	290.8	290.7	290.3	289.7	289.1	288.5	287.9	288.5	289.1	289.7
127.5°	317.2	317.1	317.0	316.8	316.4	316.1	315.7	315.4	315.7	316.1	316.4
130°	334.7	334.5	334.3	333.9	333.4	332.9	332.3	331.8	332.3	332.9	333.4
132.5°	351.9	352.0	352.0	351.6	350.8	350.0	349.1	348.3	349.1	350.0	350.8
135°	377.4	377.3	377.2	376.9	376.3	375.7	375.1	374.4	375.1	375.7	376.3
137.5°	402.1	401.9	401.7	401.3	400.7	400.1	399.5	398.9	399.5	400.1	400.7
140°	417.8	417.5	417.2	416.7	416.2	415.7	415.2	414.7	415.2	415.7	416.2
142.5°	433.3	432.9	432.5	432.1	431.7	431.3	430.8	430.4	430.8	431.3	431.7
145°	456.2	455.9	455.6	455.2	454.8	454.4	454.0	453.6	454.0	454.4	454.8
147.5°	476.7	476.4	476.2	475.9	475.6	475.4	475.2	475.0	475.2	475.4	475.6
150°	489.9	489.5	489.1	488.9	489.0	489.1	489.2	489.3	489.2	489.1	489.0
152.5°	502.1	501.9	501.7	501.6	501.4	501.3	501.2	501.0	501.2	501.3	501.4
155°	519.3	519.2	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1	519.1
157.5°	534.4	534.3	534.2	534.2	534.5	534.7	534.9	535.1	534.9	534.7	534.5
160°	543.5	543.4	543.3	543.4	543.7	544.0	544.4	544.7	544.4	544.0	543.7
162.5°	552.1	552.1	552.1	552.2	552.4	552.7	552.9	553.1	552.9	552.7	552.4
165°	563.7	563.6	563.5	563.5	563.7	563.9	564.1	564.3	564.1	563.9	563.7
167.5°	572.1	572.1	572.1	572.3	572.7	573.1	573.5	573.9	573.5	573.1	572.7
170°	577.1	577.1	577.1	577.3	577.7	578.1	578.6	579.0	578.6	578.1	577.7
172.5°	580.9	580.9	580.9	581.1	581.5	581.9	582.3	582.7	582.3	581.9	581.5
175°	584.9	584.9	584.9	585.1	585.5	585.9	586.3	586.8	586.3	585.9	585.5
177.5°	587.2	587.3	587.3	587.5	587.9	588.2	588.5	588.9	588.5	588.2	587.9
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1885.5	1876.7	1870.4	1857.7	1849.0	1845.2	1838.3	1836.3	1843.3	1838.3	1837.7
5°	1829.5	1806.6	1788.6	1770.4	1750.7	1738.2	1719.3	1716.1	1711.4	1704.2	1702.7
7.5°	1762.2	1732.5	1709.2	1679.3	1653.3	1632.3	1608.7	1597.5	1591.4	1582.3	1570.0
10°	1716.9	1681.4	1650.0	1620.0	1587.8	1561.9	1538.2	1520.0	1508.2	1497.2	1492.6
12.5°	1672.1	1636.1	1595.8	1559.6	1523.6	1494.4	1468.2	1456.5	1443.4	1430.5	1419.5
15°	1602.8	1554.7	1510.7	1468.9	1438.2	1406.7	1381.5	1364.2	1344.5	1339.1	1317.8
17.5°	1529.0	1482.0	1430.4	1386.4	1350.8	1316.2	1288.5	1268.8	1254.1	1233.8	1224.0
20°	1483.1	1427.2	1376.8	1336.7	1297.3	1256.4	1228.0	1211.5	1197.3	1180.8	1173.0
22.5°	1434.0	1379.4	1327.7	1280.6	1240.6	1200.3	1180.1	1163.1	1146.9	1131.7	1121.3
25°	1361.9	1306.8	1252.4	1203.7	1162.0	1132.8	1109.1	1089.4	1080.9	1065.9	1054.8
27.5°	1290.5	1231.9	1175.6	1126.9	1094.2	1065.4	1046.0	1030.5	1014.8	1001.8	992.2
30°	1244.6	1184.8	1123.4	1084.8	1050.2	1022.6	1001.3	986.3	974.5	962.7	955.6
32.5°	1198.6	1136.9	1082.4	1040.7	1007.9	984.1	962.3	948.0	935.5	922.4	914.1
35°	1124.9	1062.0	1017.8	976.9	944.6	922.6	907.7	887.2	877.0	867.5	858.8
37.5°	1056.4	997.8	950.2	914.2	886.3	864.3	845.0	833.9	821.3	812.8	805.7
40°	1006.0	952.5	909.2	871.4	851.0	826.6	808.5	794.3	784.9	773.9	766.0
42.5°	960.7	911.0	868.9	835.0	809.4	788.8	771.3	757.1	745.2	737.3	730.6
45°	896.7	847.1	806.1	774.6	751.0	731.3	713.2	706.1	690.3	681.0	677.8
47.5°	830.3	786.0	746.4	717.4	693.2	674.6	657.6	643.2	634.5	625.2	620.2
50°	785.7	743.2	706.1	677.8	654.2	633.7	617.9	608.5	596.7	588.0	581.8
52.5°	740.9	701.6	664.6	637.4	617.0	596.5	579.0	569.5	558.3	552.8	548.4
55°	677.0	635.3	603.8	577.0	555.7	536.8	520.4	510.9	503.8	498.3	496.8
57.5°	604.6	571.5	542.2	518.2	496.0	478.3	463.8	454.8	448.6	447.8	443.0
60°	557.3	527.5	500.7	474.6	455.8	439.3	426.7	416.5	410.1	409.3	407.8
62.5°	510.1	481.4	456.6	433.7	416.8	400.8	388.9	377.4	373.7	369.7	366.2
65°	440.0	414.0	393.6	375.5	357.4	344.0	332.2	325.1	316.5	311.7	303.1
67.5°	371.2	351.1	331.4	316.2	301.9	289.2	279.4	268.9	263.1	259.3	253.0
70°	325.9	310.1	290.4	274.0	263.0	252.7	244.8	233.0	229.0	225.9	222.8
72.5°	283.1	269.2	252.7	239.3	228.3	218.6	209.5	204.0	200.2	196.9	195.1
75°	222.8	209.4	195.2	185.8	177.9	170.1	165.3	161.4	159.8	159.1	155.8
77.5°	163.6	156.5	145.1	137.6	132.4	129.3	125.0	123.0	122.8	119.4	118.3
80°	125.1	121.2	111.8	108.7	104.7	101.6	99.2	95.2	91.3	89.8	87.4
82.5°	93.0	89.1	85.3	80.3	77.0	75.1	72.7	71.3	71.8	69.6	68.5
85°	49.6	45.6	44.1	43.3	41.7	43.3	42.5	41.7	40.9	40.2	40.9
87.5°	16.5	16.7	16.2	17.6	15.9	16.6	16.7	16.2	16.3	16.4	15.9
90°	3.7	4.4	5.2	5.9	6.6	7.4	7.9	8.4	8.9	9.4	9.8
92.5°	13.3	14.0	14.9	15.9	16.7	17.6	18.3	18.9	19.6	20.3	20.7
95°	30.6	31.2	32.2	33.2	34.2	35.2	36.0	36.7	37.4	38.1	38.6
97.5°	49.8	50.5	51.9	53.3	54.7	56.1	56.8	57.5	58.2	58.8	59.2
100°	64.1	64.7	66.0	67.4	68.7	70.0	71.0	71.9	72.8	73.7	74.2
102.5°	81.5	82.0	82.7	83.3	84.0	84.6	85.6	86.6	87.7	88.7	89.3
105°	106.4	106.9	107.6	108.2	108.8	109.4	110.0	110.6	111.2	111.8	112.3
107.5°	133.5	134.0	134.4	134.9	135.4	135.8	136.1	136.4	136.7	137.0	137.2
110°	152.2	152.6	152.9	153.2	153.5	153.8	154.1	154.4	154.7	155.0	155.1



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.3	170.6	171.0	171.4	171.7	172.1	172.3	172.4	172.5	172.7	172.7
115°	198.9	199.2	199.4	199.7	199.9	200.1	200.0	199.9	199.8	199.7	199.5
117.5°	226.2	226.4	226.6	226.7	226.9	227.1	227.2	227.3	227.3	227.4	227.3
120°	245.1	245.4	245.5	245.6	245.7	245.8	245.8	245.8	245.8	245.8	245.6
122.5°	262.8	263.1	263.3	263.6	263.9	264.1	264.0	264.0	263.9	263.8	263.6
125°	290.3	290.7	290.8	290.9	291.0	291.1	290.9	290.7	290.5	290.3	290.1
127.5°	316.8	317.0	317.1	317.2	317.3	317.5	317.4	317.3	317.2	317.1	316.9
130°	333.9	334.3	334.5	334.7	334.9	335.1	335.0	334.9	334.8	334.7	334.5
132.5°	351.6	352.0	352.0	351.9	351.9	351.8	351.7	351.6	351.5	351.4	351.3
135°	376.9	377.2	377.3	377.4	377.5	377.6	377.6	377.6	377.6	377.6	377.4
137.5°	401.3	401.7	401.9	402.1	402.3	402.6	402.7	402.8	402.9	403.1	402.9
140°	416.7	417.2	417.5	417.8	418.1	418.4	418.6	418.8	419.0	419.2	419.0
142.5°	432.1	432.5	432.9	433.3	433.7	434.1	434.2	434.3	434.4	434.5	434.3
145°	455.2	455.6	455.9	456.2	456.5	456.8	456.8	456.8	456.8	456.8	456.7
147.5°	475.9	476.2	476.4	476.7	476.9	477.2	477.4	477.6	477.9	478.1	477.9
150°	488.9	489.1	489.5	489.9	490.3	490.7	490.7	490.7	490.7	490.7	490.6
152.5°	501.6	501.7	501.9	502.1	502.2	502.4	502.6	502.9	503.1	503.3	503.3
155°	519.1	519.1	519.2	519.3	519.4	519.5	519.9	520.3	520.7	521.1	521.1
157.5°	534.2	534.2	534.3	534.4	534.5	534.6	535.0	535.4	535.8	536.2	536.1
160°	543.4	543.3	543.4	543.5	543.6	543.7	544.2	544.6	545.0	545.4	545.3
162.5°	552.2	552.1	552.1	552.1	552.2	552.2	552.7	553.2	553.6	554.1	554.1
165°	563.5	563.5	563.6	563.7	563.8	563.9	564.3	564.7	565.1	565.5	565.4
167.5°	572.3	572.1	572.1	572.1	572.1	572.1	572.7	573.3	573.9	574.5	574.5
170°	577.3	577.1	577.1	577.1	577.1	577.1	577.7	578.3	579.0	579.7	579.6
172.5°	581.1	580.9	580.9	580.9	580.9	580.9	581.5	582.1	582.7	583.3	583.3
175°	585.1	584.9	584.9	584.9	584.9	584.9	585.5	586.1	586.8	587.4	587.3
177.5°	587.5	587.3	587.3	587.2	587.1	587.0	587.5	588.0	588.5	589.1	589.0
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1837.0	1830.1	1828.2	1830.7	1828.2	1830.1	1837.0	1837.7	1838.3	1843.3	1836.3
5°	1694.9	1687.0	1690.9	1689.3	1690.9	1687.0	1694.9	1702.7	1704.2	1711.4	1716.1
7.5°	1569.8	1560.0	1549.6	1553.0	1549.6	1560.0	1569.8	1570.0	1582.3	1591.4	1597.5
10°	1482.3	1474.4	1469.7	1473.6	1469.7	1474.4	1482.3	1492.6	1497.2	1508.2	1520.0
12.5°	1408.7	1403.9	1399.8	1398.1	1399.8	1403.9	1408.7	1419.5	1430.5	1443.4	1456.5
15°	1308.3	1298.9	1294.9	1284.8	1294.9	1298.9	1308.3	1317.8	1339.1	1344.5	1364.2
17.5°	1215.9	1212.7	1202.5	1198.1	1202.5	1212.7	1215.9	1224.0	1233.8	1254.1	1268.8
20°	1161.1	1158.0	1147.7	1154.1	1147.7	1158.0	1161.1	1173.0	1180.8	1197.3	1211.5
22.5°	1115.8	1108.8	1105.5	1103.7	1105.5	1108.8	1115.8	1121.3	1131.7	1146.9	1163.1
25°	1051.7	1041.5	1037.5	1032.8	1037.5	1041.5	1051.7	1054.8	1065.9	1080.9	1089.4
27.5°	987.7	982.3	977.0	975.8	977.0	982.3	987.7	992.2	1001.8	1014.8	1030.5
30°	946.2	940.7	936.8	936.8	936.8	940.7	946.2	955.6	962.7	974.5	986.3
32.5°	909.1	904.8	900.9	900.3	900.9	904.8	909.1	914.1	922.4	935.5	948.0
35°	855.0	848.6	847.1	842.3	847.1	848.6	855.0	858.8	867.5	877.0	887.2
37.5°	798.7	793.5	793.3	792.8	793.3	793.5	798.7	805.7	812.8	821.3	833.9
40°	762.8	758.8	758.1	752.6	758.1	758.8	762.8	766.0	773.9	784.9	794.3
42.5°	724.4	722.4	719.6	717.3	719.6	722.4	724.4	730.6	737.3	745.2	757.1
45°	672.3	666.7	666.7	662.8	666.7	666.7	672.3	677.8	681.0	690.3	706.1
47.5°	618.4	614.2	614.6	610.6	614.6	614.2	618.4	620.2	625.2	634.5	643.2
50°	582.5	580.2	579.4	577.8	579.4	580.2	582.5	581.8	588.0	596.7	608.5
52.5°	546.6	545.5	548.6	545.0	548.6	545.5	546.6	548.4	552.8	558.3	569.5
55°	498.3	495.9	500.7	495.9	500.7	495.9	498.3	496.8	498.3	503.8	510.9
57.5°	442.7	440.5	444.7	442.4	444.7	440.5	442.7	443.0	447.8	448.6	454.8
60°	406.2	401.5	403.8	404.7	403.8	401.5	406.2	407.8	409.3	410.1	416.5
62.5°	362.7	359.9	361.6	358.0	361.6	359.9	362.7	366.2	369.7	373.7	377.4
65°	301.5	299.1	296.0	294.4	296.0	299.1	301.5	303.1	311.7	316.5	325.1
67.5°	253.3	247.6	247.5	248.7	247.5	247.6	253.3	253.0	259.3	263.1	268.9
70°	218.0	218.0	217.2	217.2	217.2	218.0	218.0	222.8	225.9	229.0	233.0
72.5°	193.5	192.9	191.5	190.9	191.5	192.9	193.5	195.1	196.9	200.2	204.0
75°	155.8	156.6	155.1	154.3	155.1	156.6	155.8	155.8	159.1	159.8	161.4
77.5°	115.1	111.8	113.5	111.8	113.5	111.8	115.1	118.3	119.4	122.8	123.0
80°	87.4	86.5	89.0	86.5	89.0	86.5	87.4	87.4	89.8	91.3	95.2
82.5°	69.1	68.4	69.5	67.7	69.5	68.4	69.1	68.5	69.6	71.8	71.3
85°	41.7	40.9	40.2	40.9	40.2	40.9	41.7	40.9	40.2	40.9	41.7
87.5°	16.5	16.0	16.0	16.1	16.0	16.0	16.5	15.9	16.4	16.3	16.2
90°	10.1	10.4	10.7	11.0	10.7	10.4	10.1	9.8	9.4	8.9	8.4
92.5°	20.9	21.1	21.4	21.6	21.4	21.1	20.9	20.7	20.3	19.6	18.9
95°	38.8	39.0	39.2	39.4	39.2	39.0	38.8	38.6	38.1	37.4	36.7
97.5°	59.3	59.5	59.6	59.7	59.6	59.5	59.3	59.2	58.8	58.2	57.5
100°	74.4	74.6	74.8	75.0	74.8	74.6	74.4	74.2	73.7	72.8	71.9
102.5°	89.6	89.9	90.2	90.5	90.2	89.9	89.6	89.3	88.7	87.7	86.6
105°	112.6	112.9	113.2	113.5	113.2	112.9	112.6	112.3	111.8	111.2	110.6
107.5°	137.2	137.1	137.1	137.1	137.1	137.1	137.2	137.2	137.0	136.7	136.4
110°	155.0	154.9	154.8	154.7	154.8	154.9	155.0	155.1	155.0	154.7	154.4



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	172.5	172.3	172.1	171.9	172.1	172.3	172.5	172.7	172.7	172.5	172.4
115°	199.4	199.3	199.2	199.1	199.2	199.3	199.4	199.5	199.7	199.8	199.9
117.5°	226.9	226.5	226.0	225.6	226.0	226.5	226.9	227.3	227.4	227.3	227.3
120°	245.2	244.8	244.4	244.0	244.4	244.8	245.2	245.6	245.8	245.8	245.8
122.5°	263.3	263.0	262.6	262.3	262.6	263.0	263.3	263.6	263.8	263.9	264.0
125°	290.0	289.9	289.8	289.7	289.8	289.9	290.0	290.1	290.3	290.5	290.7
127.5°	316.7	316.5	316.3	316.1	316.3	316.5	316.7	316.9	317.1	317.2	317.3
130°	334.3	334.1	333.9	333.7	333.9	334.1	334.3	334.5	334.7	334.8	334.9
132.5°	351.0	350.7	350.4	350.1	350.4	350.7	351.0	351.3	351.4	351.5	351.6
135°	377.0	376.6	376.2	375.8	376.2	376.6	377.0	377.4	377.6	377.6	377.6
137.5°	402.4	401.9	401.3	400.8	401.3	401.9	402.4	402.9	403.1	402.9	402.8
140°	418.5	418.0	417.5	417.0	417.5	418.0	418.5	419.0	419.2	419.0	418.8
142.5°	433.8	433.3	432.8	432.3	432.8	433.3	433.8	434.3	434.5	434.4	434.3
145°	456.4	456.1	455.8	455.4	455.8	456.1	456.4	456.7	456.8	456.8	456.8
147.5°	477.2	476.5	475.7	475.1	475.7	476.5	477.2	477.9	478.1	477.9	477.6
150°	490.4	490.2	490.0	489.8	490.0	490.2	490.4	490.6	490.7	490.7	490.7
152.5°	502.9	502.6	502.2	501.8	502.2	502.6	502.9	503.3	503.3	503.1	502.9
155°	520.6	520.1	519.6	519.1	519.6	520.1	520.6	521.1	521.1	520.7	520.3
157.5°	535.4	534.7	534.1	533.4	534.1	534.7	535.4	536.1	536.2	535.8	535.4
160°	544.8	544.3	543.8	543.3	543.8	544.3	544.8	545.3	545.4	545.0	544.6
162.5°	553.5	552.9	552.3	551.7	552.3	552.9	553.5	554.1	554.1	553.6	553.2
165°	564.8	564.2	563.6	563.0	563.6	564.2	564.8	565.4	565.5	565.1	564.7
167.5°	573.8	573.2	572.6	572.0	572.6	573.2	573.8	574.5	574.5	573.9	573.3
170°	578.9	578.1	577.4	576.7	577.4	578.1	578.9	579.6	579.7	579.0	578.3
172.5°	582.6	582.0	581.4	580.8	581.4	582.0	582.6	583.3	583.3	582.7	582.1
175°	586.6	585.9	585.2	584.5	585.2	585.9	586.6	587.3	587.4	586.8	586.1
177.5°	588.4	587.8	587.2	586.7	587.2	587.8	588.4	589.0	589.1	588.5	588.0
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1838.3	1845.2	1849.0	1857.7	1870.4	1876.7	1885.5	1891.8	1900.7	1911.4	1920.2
5°	1719.3	1738.2	1750.7	1770.4	1788.6	1806.6	1829.5	1846.0	1868.0	1893.2	1912.9
7.5°	1608.7	1632.3	1653.3	1679.3	1709.2	1732.5	1762.2	1792.6	1827.0	1862.8	1896.5
10°	1538.2	1561.9	1587.8	1620.0	1650.0	1681.4	1716.9	1752.3	1795.6	1835.7	1881.4
12.5°	1468.2	1494.4	1523.6	1559.6	1595.8	1636.1	1672.1	1712.0	1758.5	1810.6	1859.4
15°	1381.5	1406.7	1438.2	1468.9	1510.7	1554.7	1602.8	1655.5	1707.5	1765.6	1826.3
17.5°	1288.5	1316.2	1350.8	1386.4	1430.4	1482.0	1529.0	1586.8	1645.3	1713.1	1784.4
20°	1228.0	1256.4	1297.3	1336.7	1376.8	1427.2	1483.1	1542.2	1604.3	1676.0	1755.4
22.5°	1180.1	1200.3	1240.6	1280.6	1327.7	1379.4	1434.0	1495.5	1563.4	1637.5	1720.8
25°	1109.1	1132.8	1162.0	1203.7	1252.4	1306.8	1361.9	1427.2	1501.2	1576.8	1665.7
27.5°	1046.0	1065.4	1094.2	1126.9	1175.6	1231.9	1290.5	1358.7	1434.6	1511.6	1605.1
30°	1001.3	1022.6	1050.2	1084.8	1123.4	1184.8	1244.6	1311.5	1388.7	1468.1	1564.2
32.5°	962.3	984.1	1007.9	1040.7	1082.4	1136.9	1198.6	1264.3	1342.6	1424.7	1518.2
35°	907.7	922.6	944.6	976.9	1017.8	1062.0	1124.9	1194.2	1270.5	1355.5	1449.3
37.5°	845.0	864.3	886.3	914.2	950.2	997.8	1056.4	1126.5	1197.3	1278.7	1364.2
40°	808.5	826.6	851.0	871.4	909.2	952.5	1006.0	1079.2	1150.1	1226.5	1304.4
42.5°	771.3	788.8	809.4	835.0	868.9	911.0	960.7	1028.9	1104.8	1176.7	1242.0
45°	713.2	731.3	751.0	774.6	806.1	847.1	896.7	958.8	1024.9	1091.1	1140.6
47.5°	657.6	674.6	693.2	717.4	746.4	786.0	830.3	885.2	949.5	1005.7	1041.2
50°	617.9	633.7	654.2	677.8	706.1	743.2	785.7	839.9	893.4	944.6	976.9
52.5°	579.0	596.5	617.0	637.4	664.6	701.6	740.9	787.7	838.7	880.4	907.1
55°	520.4	536.8	555.7	577.0	603.8	635.3	677.0	714.0	754.2	789.6	805.3
57.5°	463.8	478.3	496.0	518.2	542.2	571.5	604.6	640.2	668.5	693.6	711.3
60°	426.7	439.3	455.8	474.6	500.7	527.5	557.3	590.4	612.5	633.7	650.3
62.5°	388.9	400.8	416.8	433.7	456.6	481.4	510.1	536.8	558.3	572.6	591.7
65°	332.2	344.0	357.4	375.5	393.6	414.0	440.0	459.7	474.6	490.4	502.2
67.5°	279.4	289.2	301.9	316.2	331.4	351.1	371.2	387.6	397.9	407.3	421.5
70°	244.8	252.7	263.0	274.0	290.4	310.1	325.9	338.5	345.6	355.1	372.3
72.5°	209.5	218.6	228.3	239.3	252.7	269.2	283.1	295.7	300.2	307.8	318.8
75°	165.3	170.1	177.9	185.8	195.2	209.4	222.8	225.9	229.8	236.2	244.0
77.5°	125.0	129.3	132.4	137.6	145.1	156.5	163.6	168.3	169.3	171.6	179.4
80°	99.2	101.6	104.7	108.7	111.8	121.2	125.1	129.9	131.5	133.8	137.7
82.5°	72.7	75.1	77.0	80.3	85.3	89.1	93.0	97.8	98.1	99.8	100.6
85°	42.5	43.3	41.7	43.3	44.1	45.6	49.6	53.5	52.7	51.9	54.3
87.5°	16.7	16.6	15.9	17.6	16.2	16.7	16.5	17.0	18.1	19.2	20.2
90°	7.9	7.4	6.6	5.9	5.2	4.4	3.7	2.9	2.1	1.3	0.5
92.5°	18.3	17.6	16.7	15.9	14.9	14.0	13.3	12.8	12.2	11.6	11.1
95°	36.0	35.2	34.2	33.2	32.2	31.2	30.6	30.4	30.2	30.0	29.8
97.5°	56.8	56.1	54.7	53.3	51.9	50.5	49.8	49.7	49.6	49.5	49.4
100°	71.0	70.0	68.7	67.4	66.0	64.7	64.1	64.1	64.1	64.1	64.1
102.5°	85.6	84.6	84.0	83.3	82.7	82.0	81.5	81.1	80.7	80.2	79.8
105°	110.0	109.4	108.8	108.2	107.6	106.9	106.4	105.8	105.3	104.8	104.3
107.5°	136.1	135.8	135.4	134.9	134.4	134.0	133.5	133.0	132.5	132.0	131.5
110°	154.1	153.8	153.5	153.2	152.9	152.6	152.2	151.7	151.2	150.7	150.2



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	172.3	172.1	171.7	171.4	171.0	170.6	170.3	170.0	169.7	169.5	169.2
115°	200.0	200.1	199.9	199.7	199.4	199.2	198.9	198.5	198.1	197.6	197.2
117.5°	227.2	227.1	226.9	226.7	226.6	226.4	226.2	226.0	225.8	225.6	225.5
120°	245.8	245.8	245.7	245.6	245.5	245.4	245.1	244.6	244.1	243.6	243.1
122.5°	264.0	264.1	263.9	263.6	263.3	263.1	262.8	262.7	262.5	262.3	262.1
125°	290.9	291.1	291.0	290.9	290.8	290.7	290.3	289.7	289.1	288.5	287.9
127.5°	317.4	317.5	317.3	317.2	317.1	317.0	316.8	316.4	316.1	315.7	315.4
130°	335.0	335.1	334.9	334.7	334.5	334.3	333.9	333.4	332.9	332.3	331.8
132.5°	351.7	351.8	351.9	351.9	352.0	352.0	351.6	350.8	350.0	349.1	348.3
135°	377.6	377.6	377.5	377.4	377.3	377.2	376.9	376.3	375.7	375.1	374.4
137.5°	402.7	402.6	402.3	402.1	401.9	401.7	401.3	400.7	400.1	399.5	398.9
140°	418.6	418.4	418.1	417.8	417.5	417.2	416.7	416.2	415.7	415.2	414.7
142.5°	434.2	434.1	433.7	433.3	432.9	432.5	432.1	431.7	431.3	430.8	430.4
145°	456.8	456.8	456.5	456.2	455.9	455.6	455.2	454.8	454.4	454.0	453.6
147.5°	477.4	477.2	476.9	476.7	476.4	476.2	475.9	475.6	475.4	475.2	475.0
150°	490.7	490.7	490.3	489.9	489.5	489.1	488.9	489.0	489.1	489.2	489.3
152.5°	502.6	502.4	502.2	502.1	501.9	501.7	501.6	501.4	501.3	501.2	501.0
155°	519.9	519.5	519.4	519.3	519.2	519.1	519.1	519.1	519.1	519.1	519.1
157.5°	535.0	534.6	534.5	534.4	534.3	534.2	534.2	534.5	534.7	534.9	535.1
160°	544.2	543.7	543.6	543.5	543.4	543.3	543.4	543.7	544.0	544.4	544.7
162.5°	552.7	552.2	552.2	552.1	552.1	552.1	552.2	552.4	552.7	552.9	553.1
165°	564.3	563.9	563.8	563.7	563.6	563.5	563.5	563.7	563.9	564.1	564.3
167.5°	572.7	572.1	572.1	572.1	572.1	572.1	572.3	572.7	573.1	573.5	573.9
170°	577.7	577.1	577.1	577.1	577.1	577.1	577.3	577.7	578.1	578.6	579.0
172.5°	581.5	580.9	580.9	580.9	580.9	580.9	581.1	581.5	581.9	582.3	582.7
175°	585.5	584.9	584.9	584.9	584.9	584.9	585.1	585.5	585.9	586.3	586.8
177.5°	587.5	587.0	587.1	587.2	587.3	587.3	587.5	587.9	588.2	588.5	588.9
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1927.0	1932.8	1941.0	1950.4	1957.9	1966.1	1970.5	1970.5	1974.3	1982.5	1993.2
5°	1932.6	1953.1	1972.8	1997.9	2017.6	2040.4	2057.7	2074.3	2089.2	2108.1	2127.8
7.5°	1931.0	1965.0	2000.4	2040.1	2083.9	2118.7	2154.4	2182.4	2210.2	2246.3	2274.8
10°	1924.7	1968.8	2016.8	2067.2	2122.3	2170.3	2213.6	2253.0	2290.8	2330.2	2365.5
12.5°	1913.4	1969.4	2028.1	2088.6	2158.2	2213.1	2269.1	2310.9	2355.0	2398.1	2441.8
15°	1896.3	1962.5	2033.4	2117.6	2202.6	2264.0	2319.1	2373.4	2414.4	2463.2	2504.9
17.5°	1861.3	1946.4	2035.6	2127.7	2209.4	2280.7	2338.4	2390.1	2433.7	2487.4	2544.1
20°	1840.5	1932.6	2025.5	2123.8	2201.8	2275.0	2330.9	2384.4	2438.7	2508.8	2578.1
22.5°	1811.5	1910.0	2008.4	2101.8	2184.1	2254.8	2312.7	2378.1	2449.4	2529.0	2612.7
25°	1765.6	1867.2	1964.9	2053.8	2134.1	2206.6	2285.2	2373.4	2460.0	2564.8	2685.1
27.5°	1707.6	1805.5	1892.6	1986.6	2066.4	2158.5	2256.7	2352.3	2477.2	2621.2	2771.6
30°	1664.2	1757.1	1839.7	1928.6	2019.1	2120.7	2230.9	2343.5	2492.2	2661.5	2840.2
32.5°	1613.8	1697.9	1779.9	1865.6	1970.0	2081.6	2198.8	2336.5	2514.4	2706.8	2891.8
35°	1526.4	1601.9	1681.4	1776.8	1887.7	2008.9	2158.5	2326.2	2541.1	2748.1	2914.3
37.5°	1434.7	1494.4	1574.3	1674.7	1795.6	1935.9	2105.6	2309.4	2530.1	2715.8	2786.5
40°	1364.2	1420.1	1504.3	1609.8	1729.5	1883.0	2073.5	2282.9	2504.9	2633.9	2628.5
42.5°	1294.3	1350.8	1431.9	1538.0	1662.7	1834.5	2030.6	2248.3	2435.6	2484.8	2382.3
45°	1187.1	1239.8	1319.4	1426.4	1560.2	1740.5	1946.7	2155.4	2275.0	2195.5	1992.4
47.5°	1077.8	1129.0	1202.9	1307.7	1453.8	1642.4	1837.4	2008.6	2025.5	1854.6	1611.0
50°	1006.0	1054.1	1124.1	1235.9	1377.6	1561.9	1750.0	1884.6	1842.8	1634.3	1383.1
52.5°	936.1	982.3	1047.9	1153.4	1298.3	1478.6	1646.7	1752.3	1655.8	1434.0	1208.0
55°	832.8	877.0	943.1	1039.9	1171.3	1336.7	1483.9	1522.5	1380.8	1157.2	974.5
57.5°	734.8	767.1	832.4	918.1	1044.8	1190.5	1296.1	1289.1	1132.8	931.4	800.4
60°	669.9	699.0	761.2	839.9	960.4	1091.1	1165.1	1133.6	975.3	809.2	683.3
62.5°	609.5	636.7	688.8	761.2	864.6	978.4	1032.2	988.8	839.3	693.4	593.2
65°	518.0	537.7	579.4	646.3	727.4	806.1	854.1	790.3	658.1	547.9	472.3
67.5°	432.5	449.5	486.7	534.6	590.6	644.9	664.4	604.6	501.8	427.5	374.3
70°	377.1	392.8	418.0	462.9	499.9	538.5	547.9	494.3	408.6	351.8	318.8
72.5°	324.2	338.6	360.7	392.3	418.0	440.2	444.6	394.9	329.2	290.1	264.7
75°	247.2	259.7	274.0	285.8	302.3	306.2	304.7	266.1	230.7	204.7	190.5
77.5°	181.7	186.9	195.5	200.3	201.1	200.8	192.7	168.3	150.1	139.4	133.5
80°	140.2	144.1	146.4	147.9	148.8	140.9	132.3	117.2	111.0	104.7	97.7
82.5°	101.7	104.4	106.7	107.0	102.8	96.2	88.2	80.8	76.3	73.2	70.5
85°	55.1	55.8	55.1	51.2	45.6	43.3	41.7	40.2	39.4	38.6	38.6
87.5°	19.8	18.1	15.0	15.9	16.1	15.6	15.7	15.1	14.6	14.7	14.8
90°	1.3	2.1	2.9	3.7	4.4	5.2	5.9	6.6	7.4	7.9	8.4
92.5°	11.6	12.2	12.8	13.3	14.0	14.9	15.9	16.7	17.6	18.3	18.9
95°	30.0	30.2	30.4	30.6	31.2	32.2	33.2	34.2	35.2	36.0	36.7
97.5°	49.5	49.6	49.7	49.8	50.5	51.9	53.3	54.7	56.1	56.8	57.5
100°	64.1	64.1	64.1	64.1	64.7	66.0	67.4	68.7	70.0	71.0	71.9
102.5°	80.2	80.7	81.1	81.5	82.0	82.7	83.3	84.0	84.6	85.6	86.6
105°	104.8	105.3	105.8	106.4	106.9	107.6	108.2	108.8	109.4	110.0	110.6
107.5°	132.0	132.5	133.0	133.5	134.0	134.4	134.9	135.4	135.8	136.1	136.4
110°	150.7	151.2	151.7	152.2	152.6	152.9	153.2	153.5	153.8	154.1	154.4



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	169.5	169.7	170.0	170.3	170.6	171.0	171.4	171.7	172.1	172.3	172.4
115°	197.6	198.1	198.5	198.9	199.2	199.4	199.7	199.9	200.1	200.0	199.9
117.5°	225.6	225.8	226.0	226.2	226.4	226.6	226.7	226.9	227.1	227.2	227.3
120°	243.6	244.1	244.6	245.1	245.4	245.5	245.6	245.7	245.8	245.8	245.8
122.5°	262.3	262.5	262.7	262.8	263.1	263.3	263.6	263.9	264.1	264.0	264.0
125°	288.5	289.1	289.7	290.3	290.7	290.8	290.9	291.0	291.1	290.9	290.7
127.5°	315.7	316.1	316.4	316.8	317.0	317.1	317.2	317.3	317.5	317.4	317.3
130°	332.3	332.9	333.4	333.9	334.3	334.5	334.7	334.9	335.1	335.0	334.9
132.5°	349.1	350.0	350.8	351.6	352.0	352.0	351.9	351.9	351.8	351.7	351.6
135°	375.1	375.7	376.3	376.9	377.2	377.3	377.4	377.5	377.6	377.6	377.6
137.5°	399.5	400.1	400.7	401.3	401.7	401.9	402.1	402.3	402.6	402.7	402.8
140°	415.2	415.7	416.2	416.7	417.2	417.5	417.8	418.1	418.4	418.6	418.8
142.5°	430.8	431.3	431.7	432.1	432.5	432.9	433.3	433.7	434.1	434.2	434.3
145°	454.0	454.4	454.8	455.2	455.6	455.9	456.2	456.5	456.8	456.8	456.8
147.5°	475.2	475.4	475.6	475.9	476.2	476.4	476.7	476.9	477.2	477.4	477.6
150°	489.2	489.1	489.0	488.9	489.1	489.5	489.9	490.3	490.7	490.7	490.7
152.5°	501.2	501.3	501.4	501.6	501.7	501.9	502.1	502.2	502.4	502.6	502.9
155°	519.1	519.1	519.1	519.1	519.1	519.2	519.3	519.4	519.5	519.9	520.3
157.5°	534.9	534.7	534.5	534.2	534.2	534.3	534.4	534.5	534.6	535.0	535.4
160°	544.4	544.0	543.7	543.4	543.3	543.4	543.5	543.6	543.7	544.2	544.6
162.5°	552.9	552.7	552.4	552.2	552.1	552.1	552.1	552.2	552.2	552.7	553.2
165°	564.1	563.9	563.7	563.5	563.5	563.6	563.7	563.8	563.9	564.3	564.7
167.5°	573.5	573.1	572.7	572.3	572.1	572.1	572.1	572.1	572.1	572.7	573.3
170°	578.6	578.1	577.7	577.3	577.1	577.1	577.1	577.1	577.1	577.7	578.3
172.5°	582.3	581.9	581.5	581.1	580.9	580.9	580.9	580.9	580.9	581.5	582.1
175°	586.3	585.9	585.5	585.1	584.9	584.9	584.9	584.9	584.9	585.5	586.1
177.5°	588.5	588.2	587.9	587.5	587.3	587.3	587.2	587.1	587.0	587.5	588.0
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1	588.1



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	2001.4	2001.4	2012.1	2011.4	2018.4	2015.9	2017.1
5°	2151.4	2164.8	2176.7	2184.4	2196.3	2199.5	2197.9
7.5°	2306.9	2336.7	2351.2	2371.1	2374.7	2385.1	2384.0
10°	2403.4	2432.5	2454.5	2471.8	2480.4	2491.5	2492.2
12.5°	2478.9	2503.7	2523.1	2539.2	2549.7	2553.2	2555.3
15°	2537.9	2565.5	2588.3	2611.1	2624.5	2634.7	2640.3
17.5°	2597.5	2640.0	2680.3	2711.3	2729.9	2745.6	2745.4
20°	2643.4	2692.2	2742.6	2778.0	2814.3	2829.9	2832.4
22.5°	2692.5	2767.1	2832.1	2887.0	2934.6	2950.9	2957.1
25°	2794.6	2892.2	2992.1	3069.3	3124.4	3156.6	3161.4
27.5°	2917.8	3049.9	3155.1	3226.3	3272.1	3296.0	3301.2
30°	3004.8	3126.7	3221.3	3274.8	3296.0	3299.1	3287.3
32.5°	3043.8	3134.9	3172.7	3169.6	3127.9	3100.2	3089.6
35°	2996.1	2977.2	2885.1	2774.9	2690.7	2637.2	2622.9
37.5°	2726.5	2563.6	2394.2	2227.7	2139.0	2094.0	2016.5
40°	2460.8	2228.6	2052.2	1912.1	1812.1	1731.8	1712.9
42.5°	2161.0	1921.3	1744.9	1625.0	1545.1	1490.1	1466.1
45°	1736.6	1530.3	1384.7	1292.6	1231.2	1191.0	1173.0
47.5°	1389.0	1229.3	1123.2	1055.0	1008.2	973.3	963.5
50°	1198.1	1070.6	980.9	923.4	888.0	861.2	850.2
52.5°	1040.7	937.8	868.8	821.3	787.8	771.1	762.0
55°	858.8	769.9	720.3	682.5	663.6	650.3	643.9
57.5°	702.4	638.1	601.9	575.7	558.3	549.8	546.6
60°	614.8	564.4	531.4	510.9	499.1	488.1	484.9
62.5°	537.3	497.7	472.2	454.2	442.4	437.7	435.8
65°	432.9	407.0	388.1	377.1	367.6	366.1	365.3
67.5°	344.2	328.9	319.0	307.5	304.2	298.6	297.6
70°	294.4	284.2	272.4	268.4	264.5	259.0	259.7
72.5°	249.7	239.4	231.5	226.2	224.8	222.5	224.5
75°	182.6	179.5	176.3	172.4	170.9	170.9	170.1
77.5°	130.4	127.6	124.2	121.9	121.4	118.1	119.4
80°	94.4	90.5	89.0	89.8	87.4	86.5	86.5
82.5°	69.9	68.5	67.0	67.1	66.6	65.8	66.4
85°	38.6	37.8	37.8	37.0	37.0	36.3	36.3
87.5°	15.7	16.4	15.1	14.6	14.6	15.3	16.1
90°	8.9	9.4	9.8	10.1	10.4	10.7	11.0
92.5°	19.6	20.3	20.7	20.9	21.1	21.4	21.6
95°	37.4	38.1	38.6	38.8	39.0	39.2	39.4
97.5°	58.2	58.8	59.2	59.3	59.5	59.6	59.7
100°	72.8	73.7	74.2	74.4	74.6	74.8	75.0
102.5°	87.7	88.7	89.3	89.6	89.9	90.2	90.5
105°	111.2	111.8	112.3	112.6	112.9	113.2	113.5
107.5°	136.7	137.0	137.2	137.2	137.1	137.1	137.1
110°	154.7	155.0	155.1	155.0	154.9	154.8	154.7



TEST NUMBER: P333721-840

CATALOG NUMBER: S125RDIW-S1270D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	172.5	172.7	172.7	172.5	172.3	172.1	171.9
115°	199.8	199.7	199.5	199.4	199.3	199.2	199.1
117.5°	227.3	227.4	227.3	226.9	226.5	226.0	225.6
120°	245.8	245.8	245.6	245.2	244.8	244.4	244.0
122.5°	263.9	263.8	263.6	263.3	263.0	262.6	262.3
125°	290.5	290.3	290.1	290.0	289.9	289.8	289.7
127.5°	317.2	317.1	316.9	316.7	316.5	316.3	316.1
130°	334.8	334.7	334.5	334.3	334.1	333.9	333.7
132.5°	351.5	351.4	351.3	351.0	350.7	350.4	350.1
135°	377.6	377.6	377.4	377.0	376.6	376.2	375.8
137.5°	402.9	403.1	402.9	402.4	401.9	401.3	400.8
140°	419.0	419.2	419.0	418.5	418.0	417.5	417.0
142.5°	434.4	434.5	434.3	433.8	433.3	432.8	432.3
145°	456.8	456.8	456.7	456.4	456.1	455.8	455.4
147.5°	477.9	478.1	477.9	477.2	476.5	475.7	475.1
150°	490.7	490.7	490.6	490.4	490.2	490.0	489.8
152.5°	503.1	503.3	503.3	502.9	502.6	502.2	501.8
155°	520.7	521.1	521.1	520.6	520.1	519.6	519.1
157.5°	535.8	536.2	536.1	535.4	534.7	534.1	533.4
160°	545.0	545.4	545.3	544.8	544.3	543.8	543.3
162.5°	553.6	554.1	554.1	553.5	552.9	552.3	551.7
165°	565.1	565.5	565.4	564.8	564.2	563.6	563.0
167.5°	573.9	574.5	574.5	573.8	573.2	572.6	572.0
170°	579.0	579.7	579.6	578.9	578.1	577.4	576.7
172.5°	582.7	583.3	583.3	582.6	582.0	581.4	580.8
175°	586.8	587.4	587.3	586.6	585.9	585.2	584.5
177.5°	588.5	589.1	589.0	588.4	587.8	587.2	586.7
180°	588.1	588.1	588.1	588.1	588.1	588.1	588.1

(END OF REPORT)