

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: P333701-840

Luminaire Tested: **S125RDIW-S1090D470U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333701-840
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-S1090D470U840-4F0-1E-UDD-A1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 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: 5944.3 lumens
Efficiency: N/A
Efficacy: 128.7 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

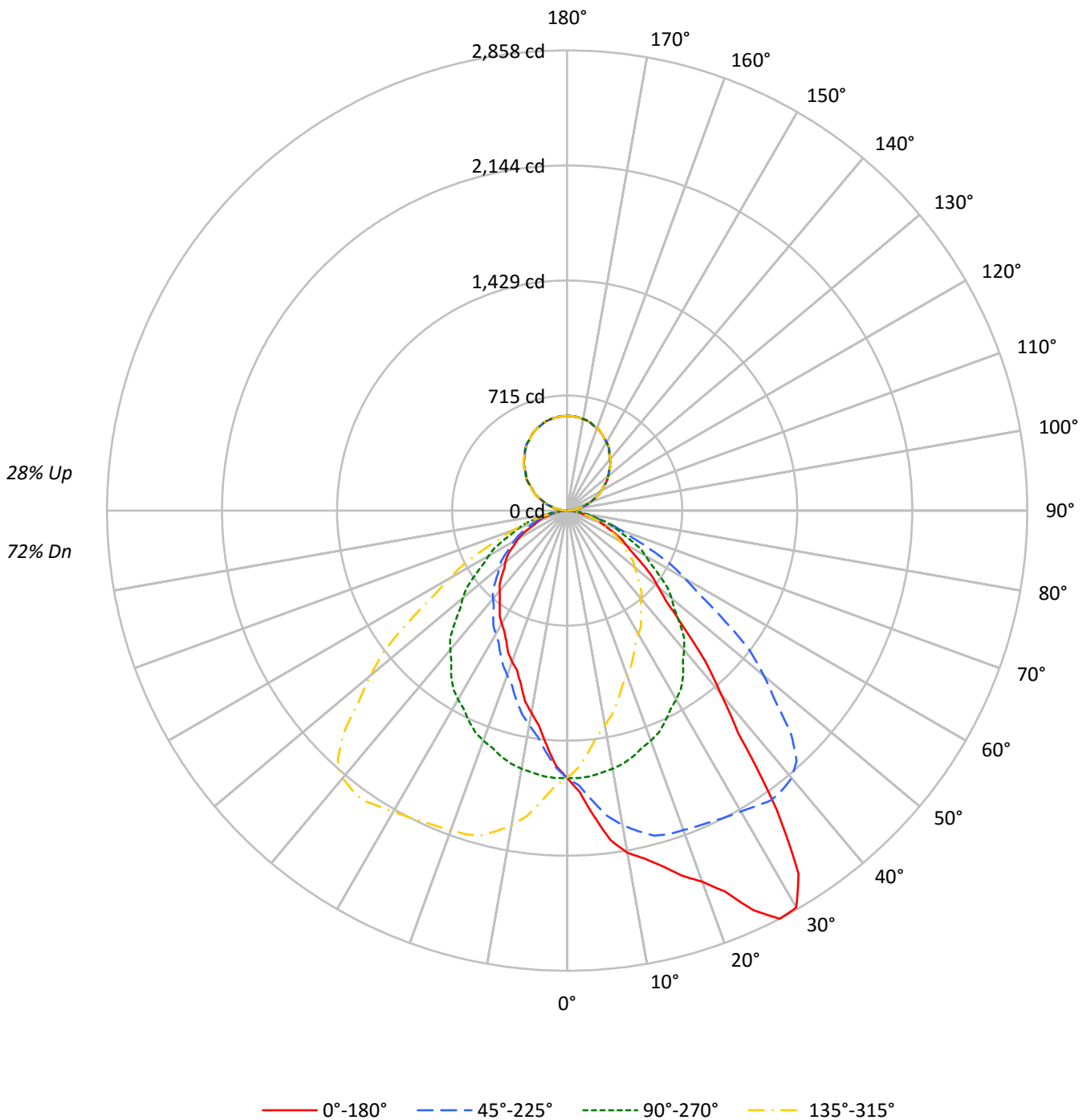
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	72
1	103	99	95	92	98	94	91	88	85	83	80	77	75	73	69	67	66	62
2	95	87	81	76	90	83	78	73	75	71	67	68	65	62	61	59	57	53
3	87	77	70	64	82	74	67	62	67	62	57	61	56	53	55	52	49	46
4	80	69	61	55	75	66	59	53	60	54	49	54	50	46	49	45	42	39
5	73	62	53	47	69	59	51	46	54	48	43	49	44	40	45	40	37	35
6	68	56	47	41	64	53	46	40	49	42	38	44	39	35	41	36	33	30
7	63	50	42	37	60	48	41	36	44	38	33	41	35	31	37	33	29	27
8	58	46	38	33	55	44	37	32	41	34	30	37	32	28	34	30	26	24
9	55	42	34	29	52	40	33	28	37	31	27	34	29	25	32	27	24	22
10	51	39	31	26	49	37	30	26	34	29	24	32	27	23	29	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10723	10723	10723	10723
5°	12337	10738	9483	10738
10°	14152	10683	8368	10683
15°	15285	10573	7438	10573
20°	16855	10446	6868	10446
25°	19506	10278	6372	10278
30°	21227	10100	6049	10100
35°	17906	9894	5750	9894
40°	12505	9522	5493	9522
45°	9276	9020	5242	9020
50°	7396	8499	5027	8499
55°	6277	7851	4835	7851
60°	5424	7272	4525	7272
65°	4834	6645	3895	6645
70°	4247	6086	3552	6086
75°	3673	5273	3334	5273
80°	2786	4437	2786	4437
85°	2319	3490	2623	3490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	2.7
10°-20°	466.6	7.8
20°-30°	739.8	12.4
30°-40°	892.2	15.0
40°-50°	796.7	13.4
50°-60°	611.0	10.3
60°-70°	397.1	6.7
70°-80°	193.0	3.2
80°-90°	47.4	0.8
90°-100°	39.4	0.7
100°-110°	116.3	2.0
110°-120°	197.1	3.3
120°-130°	259.3	4.4
130°-140°	290.6	4.9
140°-150°	284.8	4.8
150°-160°	239.2	4.0
160°-170°	159.0	2.7
170°-180°	55.6	0.9
0°-30°	1365.7	23.0
0°-40°	2257.9	38.0
0°-60°	3665.6	61.7
0°-90°	4303.1	72.4
90°-120°	352.8	5.9
90°-150°	1187.4	20.0
90°-180°	1641.0	27.6
0°-180°	5944.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1660	1660	1660	1660	1660	
5°	1903	1656	1463	1656	1903	190
15°	2286	1581	1112	1581	2286	655
25°	2737	1442	894	1442	2737	1257
35°	2271	1255	729	1255	2271	1372
45°	1016	988	574	988	1016	810
55°	558	697	429	697	558	506
65°	316	435	255	435	316	315
75°	147	211	134	211	147	157
85°	31	47	35	47	31	36
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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1746.6	1745.5	1747.7	1741.6	1742.2	1732.9	1732.9	1725.9	1716.6	1709.5	1706.2
5°	1903.0	1904.4	1901.7	1891.5	1884.6	1874.4	1862.8	1842.4	1825.3	1809.0	1796.0
7.5°	2064.2	2065.1	2056.1	2053.0	2035.8	2023.3	1997.5	1969.6	1945.0	1913.7	1889.7
10°	2158.0	2157.3	2147.7	2140.2	2125.3	2106.2	2080.9	2048.2	2017.5	1983.5	1950.8
12.5°	2212.5	2210.7	2207.7	2198.6	2184.6	2167.8	2146.4	2114.2	2076.4	2039.1	2000.9
15°	2286.1	2281.3	2272.5	2260.9	2241.1	2221.3	2197.5	2168.9	2132.7	2090.4	2055.1
17.5°	2377.1	2377.3	2363.7	2347.5	2320.7	2285.8	2249.0	2202.8	2153.7	2107.3	2069.5
20°	2452.4	2450.3	2436.7	2405.4	2374.7	2331.1	2288.9	2232.2	2172.2	2111.6	2064.6
22.5°	2560.4	2555.1	2540.8	2499.7	2452.2	2396.0	2331.4	2262.2	2189.7	2120.8	2059.1
25°	2737.3	2733.2	2705.2	2657.6	2590.8	2504.2	2419.6	2324.9	2220.7	2130.0	2055.1
27.5°	2858.3	2853.9	2833.2	2793.5	2731.9	2640.8	2526.4	2399.7	2269.6	2144.9	2036.8
30°	2846.4	2856.6	2853.9	2835.5	2789.1	2707.3	2601.7	2459.2	2304.5	2158.0	2029.1
32.5°	2675.1	2684.3	2708.3	2744.4	2747.1	2714.4	2635.4	2504.0	2343.8	2177.1	2023.2
35°	2271.1	2283.4	2329.8	2402.7	2498.1	2577.8	2594.1	2523.2	2379.4	2200.2	2014.2
37.5°	1746.0	1813.0	1852.1	1928.8	2073.1	2219.7	2360.8	2412.8	2351.5	2190.7	1999.5
40°	1483.2	1499.5	1569.0	1655.6	1777.0	1929.7	2130.7	2275.8	2280.7	2168.9	1976.6
42.5°	1269.4	1290.1	1337.9	1406.9	1510.9	1663.6	1871.2	2062.6	2151.4	2108.9	1946.6
45°	1015.6	1031.3	1066.0	1119.2	1198.9	1325.0	1503.6	1725.2	1901.0	1969.8	1866.2
47.5°	834.2	842.7	873.0	913.5	972.5	1064.4	1202.6	1394.9	1605.9	1753.7	1739.2
50°	736.1	745.7	768.8	799.5	849.3	927.0	1037.4	1197.6	1415.0	1595.6	1631.7
52.5°	659.7	667.7	682.2	711.1	752.2	811.9	901.1	1046.0	1241.6	1433.7	1517.2
55°	557.5	563.0	574.6	591.0	623.7	666.6	743.7	843.8	1002.0	1195.5	1318.2
57.5°	473.3	476.1	483.4	498.6	521.2	552.5	608.1	693.1	806.5	980.8	1116.2
60°	419.9	422.6	432.1	442.3	460.1	488.7	532.3	591.6	700.6	844.6	981.5
62.5°	377.3	379.0	383.0	393.2	408.8	430.9	465.2	513.6	600.4	726.7	856.1
65°	316.3	316.9	318.3	326.5	336.0	352.3	374.9	409.0	474.4	569.9	684.3
67.5°	257.6	258.6	263.4	266.2	276.2	284.8	298.0	324.1	370.1	434.4	523.5
70°	224.9	224.3	229.0	232.5	235.8	246.1	254.9	276.1	304.7	353.8	428.1
72.5°	194.4	192.6	194.7	195.9	200.4	207.3	216.2	229.1	251.3	285.1	341.9
75°	147.2	147.9	147.9	149.3	152.7	155.4	158.1	164.9	177.2	199.8	230.4
77.5°	103.3	102.2	105.1	105.5	107.6	110.6	112.9	115.6	120.7	129.9	145.7
80°	74.9	74.9	75.6	77.7	77.1	78.4	81.8	84.5	90.7	96.1	101.6
82.5°	57.6	57.0	57.7	58.1	58.0	59.3	60.5	61.1	63.4	66.1	69.9
85°	31.3	31.3	32.0	32.0	32.7	32.7	33.4	33.4	33.4	34.0	34.7
87.5°	14.2	13.6	13.0	12.9	13.4	14.4	13.7	13.1	13.0	12.9	13.3
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



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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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1706.2	1702.3	1695.3	1688.7	1680.5	1673.4	1668.6	1662.5	1655.0	1645.7	1638.0
5°	1781.7	1766.7	1747.0	1729.9	1708.1	1691.0	1673.3	1656.3	1639.2	1617.4	1598.3
7.5°	1865.4	1834.4	1804.3	1766.5	1732.1	1701.4	1671.9	1642.1	1613.0	1582.0	1552.2
10°	1916.6	1879.2	1837.6	1789.9	1746.3	1704.7	1666.5	1629.0	1589.5	1554.7	1517.2
12.5°	1964.7	1916.2	1868.7	1808.5	1756.1	1705.3	1656.7	1609.9	1567.7	1522.6	1482.4
15°	2008.0	1960.2	1907.1	1833.5	1760.6	1699.2	1641.9	1581.3	1528.8	1478.3	1433.4
17.5°	2024.8	1974.7	1913.0	1842.2	1762.5	1685.4	1611.5	1545.1	1483.3	1424.5	1373.9
20°	2018.2	1969.8	1906.4	1839.0	1753.7	1673.3	1593.6	1519.9	1451.2	1389.1	1335.2
22.5°	2002.4	1952.4	1891.2	1819.9	1739.0	1653.7	1568.5	1490.0	1417.9	1353.6	1294.9
25°	1978.7	1910.6	1847.9	1778.3	1701.3	1616.8	1528.8	1442.3	1365.2	1299.8	1235.8
27.5°	1954.0	1869.0	1789.2	1720.1	1638.7	1563.3	1478.5	1389.8	1308.8	1242.1	1176.4
30°	1931.7	1836.2	1748.3	1669.9	1592.9	1521.4	1440.9	1354.3	1271.2	1202.3	1135.6
32.5°	1903.8	1802.4	1705.8	1615.4	1541.1	1470.1	1397.2	1314.5	1233.6	1162.6	1094.7
35°	1869.0	1739.5	1634.5	1538.3	1455.9	1387.0	1321.6	1254.9	1173.8	1100.1	1034.0
37.5°	1823.1	1676.2	1554.7	1450.1	1363.0	1293.9	1242.2	1181.2	1107.2	1036.7	975.3
40°	1795.3	1630.4	1497.4	1393.9	1302.5	1229.6	1181.2	1129.4	1062.0	995.8	934.4
42.5°	1758.3	1588.4	1439.7	1331.7	1239.8	1169.6	1120.6	1075.4	1018.9	956.5	890.8
45°	1685.6	1507.0	1350.9	1235.1	1142.4	1073.5	1027.8	987.6	944.7	887.5	830.2
47.5°	1590.9	1422.1	1258.8	1132.3	1041.5	977.5	933.2	901.5	870.8	822.1	766.5
50°	1515.2	1352.3	1192.8	1070.2	973.3	912.6	871.1	845.9	817.9	773.7	727.3
52.5°	1425.7	1280.3	1124.1	998.7	907.4	850.5	810.5	785.4	762.3	726.2	682.0
55°	1284.9	1157.4	1014.2	900.4	816.6	759.3	721.1	697.3	683.7	653.0	618.2
57.5°	1122.2	1030.9	904.6	794.9	720.7	664.2	636.2	615.9	600.5	578.9	554.3
60°	1008.8	944.7	831.5	727.3	659.1	605.2	580.1	563.0	548.7	530.3	511.2
62.5°	893.7	847.1	748.7	659.1	596.4	551.3	527.7	512.3	495.8	483.4	464.8
65°	739.5	697.9	629.8	559.6	501.7	465.5	448.5	434.8	424.6	411.0	398.1
67.5°	575.3	558.4	511.3	462.9	421.3	389.2	374.5	365.0	352.6	344.5	335.6
70°	474.4	466.3	432.8	400.8	361.9	340.1	326.5	322.3	307.4	299.2	293.1
72.5°	385.0	381.1	361.9	339.7	312.4	293.3	280.6	276.1	266.5	259.9	256.0
75°	263.8	265.2	261.8	247.4	237.2	224.9	214.0	211.3	204.5	199.0	195.6
77.5°	166.8	173.8	174.1	173.4	169.4	161.8	157.3	155.3	148.6	146.5	145.7
80°	114.5	122.0	128.9	128.2	126.7	124.7	121.3	119.3	115.8	113.8	112.5
82.5°	76.3	83.3	89.0	92.7	92.4	90.4	88.1	87.2	86.4	84.9	84.6
85°	36.2	37.5	39.5	44.3	47.7	48.4	47.7	47.1	44.9	45.6	46.4
87.5°	13.7	13.5	13.9	13.8	13.1	15.7	17.2	17.6	16.7	15.7	14.7
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: P333701-840

CATALOG NUMBER: S125RDIW-S1090D470U840-4F0-1E-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: P333701-840

CATALOG NUMBER: S125RDIW-S1090D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1632.5	1625.0	1619.5	1608.6	1600.9	1597.7	1591.6	1590.0	1596.0	1591.6	1591.1
5°	1584.1	1564.3	1548.6	1532.9	1515.9	1505.0	1488.6	1485.9	1481.8	1475.6	1474.3
7.5°	1525.8	1500.1	1479.9	1454.0	1431.5	1413.4	1392.9	1383.2	1378.0	1370.0	1359.4
10°	1486.5	1455.9	1428.7	1402.7	1374.8	1352.3	1331.8	1316.2	1306.0	1296.4	1292.3
12.5°	1447.8	1416.6	1381.7	1350.4	1319.2	1293.9	1271.3	1261.1	1249.8	1238.6	1229.1
15°	1387.8	1346.2	1308.0	1271.8	1245.3	1218.0	1196.2	1181.2	1164.2	1159.4	1141.0
17.5°	1323.9	1283.1	1238.5	1200.4	1169.6	1139.6	1115.6	1098.6	1085.8	1068.2	1059.8
20°	1284.1	1235.8	1192.1	1157.4	1123.3	1087.8	1063.3	1048.9	1036.7	1022.4	1015.6
22.5°	1241.6	1194.3	1149.6	1108.8	1074.2	1039.4	1021.9	1007.0	993.1	979.9	970.9
25°	1179.1	1131.5	1084.4	1042.2	1006.0	980.8	960.4	943.3	935.8	922.9	913.3
27.5°	1117.4	1066.7	1017.9	975.7	947.5	922.5	905.7	892.2	878.7	867.4	859.1
30°	1077.6	1025.8	972.6	939.3	909.3	885.3	867.0	854.0	843.8	833.6	827.5
32.5°	1037.8	984.4	937.2	901.1	872.7	852.1	833.1	820.8	810.0	798.7	791.4
35°	974.0	919.5	881.3	845.9	817.9	798.8	785.9	768.2	759.3	751.1	743.7
37.5°	914.7	864.0	822.7	791.6	767.3	748.4	731.6	722.1	711.1	703.8	697.5
40°	871.1	824.8	787.3	754.6	736.8	715.7	700.0	687.7	679.5	670.0	663.2
42.5°	831.8	788.7	752.3	722.9	700.8	683.0	667.8	655.6	645.2	638.4	632.7
45°	776.4	733.4	697.9	670.7	650.3	633.2	617.5	611.4	597.7	589.6	586.8
47.5°	718.9	680.5	646.3	621.2	600.3	584.1	569.4	556.8	549.4	541.3	536.9
50°	680.2	643.4	611.4	586.8	566.4	548.7	535.0	526.8	516.6	509.2	503.7
52.5°	641.6	607.4	575.4	552.0	534.2	516.5	501.3	493.1	483.4	478.6	474.8
55°	586.2	550.1	522.8	499.6	481.2	464.8	450.5	442.3	436.3	431.4	430.1
57.5°	523.5	494.8	469.5	448.6	429.5	414.1	401.6	393.8	388.4	387.7	383.6
60°	482.6	456.7	433.5	411.0	394.7	380.3	369.4	360.5	355.1	354.5	353.0
62.5°	441.7	416.9	395.4	375.6	360.8	347.1	336.7	326.8	323.5	320.1	317.1
65°	381.0	358.5	340.8	325.1	309.4	297.8	287.6	281.6	274.0	269.9	262.5
67.5°	321.4	304.0	287.0	273.8	261.5	250.4	242.0	232.9	227.8	224.5	219.0
70°	282.2	268.5	251.6	237.2	227.6	218.8	212.0	201.8	198.3	195.6	192.9
72.5°	245.1	233.1	218.8	207.2	197.6	189.3	181.5	176.6	173.3	170.6	169.0
75°	192.9	181.3	169.1	160.9	154.0	147.2	143.1	139.8	138.4	137.6	134.9
77.5°	141.7	135.5	125.7	119.2	114.6	111.9	108.3	106.4	106.3	103.3	102.4
80°	108.4	104.9	96.7	94.0	90.7	88.0	85.8	82.5	79.1	77.7	75.6
82.5°	80.6	77.2	73.9	69.5	66.7	65.0	63.0	61.7	62.2	60.3	59.3
85°	42.9	39.5	38.2	37.5	36.2	37.5	36.8	36.2	35.4	34.7	35.4
87.5°	14.3	14.5	14.1	15.3	13.8	14.5	14.6	14.2	14.3	14.4	13.9
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: P333701-840

CATALOG NUMBER: S125RDIW-S1090D470U840-4F0-1E-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: P333701-840

CATALOG NUMBER: S125RDIW-S1090D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1590.5	1584.6	1583.0	1585.1	1583.0	1584.6	1590.5	1591.1	1591.6	1596.0	1590.0
5°	1467.5	1460.7	1464.1	1462.7	1464.1	1460.7	1467.5	1474.3	1475.6	1481.8	1485.9
7.5°	1359.3	1350.8	1341.8	1344.6	1341.8	1350.8	1359.3	1359.4	1370.0	1378.0	1383.2
10°	1283.4	1276.7	1272.5	1276.0	1272.5	1276.7	1283.4	1292.3	1296.4	1306.0	1316.2
12.5°	1219.6	1215.6	1212.0	1210.5	1212.0	1215.6	1219.6	1229.1	1238.6	1249.8	1261.1
15°	1132.9	1124.7	1121.3	1112.4	1121.3	1124.7	1132.9	1141.0	1159.4	1164.2	1181.2
17.5°	1052.8	1050.1	1041.2	1037.4	1041.2	1050.1	1052.8	1059.8	1068.2	1085.8	1098.6
20°	1005.3	1002.6	993.8	999.3	993.8	1002.6	1005.3	1015.6	1022.4	1036.7	1048.9
22.5°	966.1	960.1	957.3	955.6	957.3	960.1	966.1	970.9	979.9	993.1	1007.0
25°	910.6	901.7	898.4	894.2	898.4	901.7	910.6	913.3	922.9	935.8	943.3
27.5°	855.3	850.5	846.0	845.0	846.0	850.5	855.3	859.1	867.4	878.7	892.2
30°	819.3	814.6	811.1	811.1	811.1	814.6	819.3	827.5	833.6	843.8	854.0
32.5°	787.1	783.5	780.0	779.5	780.0	783.5	787.1	791.4	798.7	810.0	820.8
35°	740.2	734.8	733.4	729.3	733.4	734.8	740.2	743.7	751.1	759.3	768.2
37.5°	691.6	687.0	686.9	686.5	686.9	687.0	691.6	697.5	703.8	711.1	722.1
40°	660.5	657.0	656.4	651.6	656.4	657.0	660.5	663.2	670.0	679.5	687.7
42.5°	627.2	625.4	623.1	621.1	623.1	625.4	627.2	632.7	638.4	645.2	655.6
45°	582.1	577.3	577.3	573.9	577.3	577.3	582.1	586.8	589.6	597.7	611.4
47.5°	535.4	531.8	532.2	528.7	532.2	531.8	535.4	536.9	541.3	549.4	556.8
50°	504.4	502.3	501.7	500.3	501.7	502.3	504.4	503.7	509.2	516.6	526.8
52.5°	473.3	472.3	474.9	471.9	474.9	472.3	473.3	474.8	478.6	483.4	493.1
55°	431.4	429.4	433.5	429.4	433.5	429.4	431.4	430.1	431.4	436.3	442.3
57.5°	383.3	381.4	385.1	383.0	385.1	381.4	383.3	383.6	387.7	388.4	393.8
60°	351.7	347.6	349.6	350.3	349.6	347.6	351.7	353.0	354.5	355.1	360.5
62.5°	314.1	311.6	313.2	310.0	313.2	311.6	314.1	317.1	320.1	323.5	326.8
65°	261.1	259.0	256.3	254.9	256.3	259.0	261.1	262.5	269.9	274.0	281.6
67.5°	219.3	214.4	214.3	215.4	214.3	214.4	219.3	219.0	224.5	227.8	232.9
70°	188.8	188.8	188.1	188.1	188.1	188.8	188.8	192.9	195.6	198.3	201.8
72.5°	167.5	167.0	165.7	165.2	165.7	167.0	167.5	169.0	170.6	173.3	176.6
75°	134.9	135.6	134.3	133.6	134.3	135.6	134.9	134.9	137.6	138.4	139.8
77.5°	99.7	96.7	98.3	96.7	98.3	96.7	99.7	102.4	103.3	106.3	106.4
80°	75.6	74.9	77.1	74.9	77.1	74.9	75.6	75.6	77.7	79.1	82.5
82.5°	59.9	59.2	60.1	58.6	60.1	59.2	59.9	59.3	60.3	62.2	61.7
85°	36.2	35.4	34.7	35.4	34.7	35.4	36.2	35.4	34.7	35.4	36.2
87.5°	14.5	14.0	14.1	14.2	14.1	14.0	14.5	13.9	14.4	14.3	14.2
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: P333701-840

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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: P333701-840

CATALOG NUMBER: S125RDIW-S1090D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1591.6	1597.7	1600.9	1608.6	1619.5	1625.0	1632.5	1638.0	1645.7	1655.0	1662.5
5°	1488.6	1505.0	1515.9	1532.9	1548.6	1564.3	1584.1	1598.3	1617.4	1639.2	1656.3
7.5°	1392.9	1413.4	1431.5	1454.0	1479.9	1500.1	1525.8	1552.2	1582.0	1613.0	1642.1
10°	1331.8	1352.3	1374.8	1402.7	1428.7	1455.9	1486.5	1517.2	1554.7	1589.5	1629.0
12.5°	1271.3	1293.9	1319.2	1350.4	1381.7	1416.6	1447.8	1482.4	1522.6	1567.7	1609.9
15°	1196.2	1218.0	1245.3	1271.8	1308.0	1346.2	1387.8	1433.4	1478.3	1528.8	1581.3
17.5°	1115.6	1139.6	1169.6	1200.4	1238.5	1283.1	1323.9	1373.9	1424.5	1483.3	1545.1
20°	1063.3	1087.8	1123.3	1157.4	1192.1	1235.8	1284.1	1335.2	1389.1	1451.2	1519.9
22.5°	1021.9	1039.4	1074.2	1108.8	1149.6	1194.3	1241.6	1294.9	1353.6	1417.9	1490.0
25°	960.4	980.8	1006.0	1042.2	1084.4	1131.5	1179.1	1235.8	1299.8	1365.2	1442.3
27.5°	905.7	922.5	947.5	975.7	1017.9	1066.7	1117.4	1176.4	1242.1	1308.8	1389.8
30°	867.0	885.3	909.3	939.3	972.6	1025.8	1077.6	1135.6	1202.3	1271.2	1354.3
32.5°	833.1	852.1	872.7	901.1	937.2	984.4	1037.8	1094.7	1162.6	1233.6	1314.5
35°	785.9	798.8	817.9	845.9	881.3	919.5	974.0	1034.0	1100.1	1173.8	1254.9
37.5°	731.6	748.4	767.3	791.6	822.7	864.0	914.7	975.3	1036.7	1107.2	1181.2
40°	700.0	715.7	736.8	754.6	787.3	824.8	871.1	934.4	995.8	1062.0	1129.4
42.5°	667.8	683.0	700.8	722.9	752.3	788.7	831.8	890.8	956.5	1018.9	1075.4
45°	617.5	633.2	650.3	670.7	697.9	733.4	776.4	830.2	887.5	944.7	987.6
47.5°	569.4	584.1	600.3	621.2	646.3	680.5	718.9	766.5	822.1	870.8	901.5
50°	535.0	548.7	566.4	586.8	611.4	643.4	680.2	727.3	773.7	817.9	845.9
52.5°	501.3	516.5	534.2	552.0	575.4	607.4	641.6	682.0	726.2	762.3	785.4
55°	450.5	464.8	481.2	499.6	522.8	550.1	586.2	618.2	653.0	683.7	697.3
57.5°	401.6	414.1	429.5	448.6	469.5	494.8	523.5	554.3	578.9	600.5	615.9
60°	369.4	380.3	394.7	411.0	433.5	456.7	482.6	511.2	530.3	548.7	563.0
62.5°	336.7	347.1	360.8	375.6	395.4	416.9	441.7	464.8	483.4	495.8	512.3
65°	287.6	297.8	309.4	325.1	340.8	358.5	381.0	398.1	411.0	424.6	434.8
67.5°	242.0	250.4	261.5	273.8	287.0	304.0	321.4	335.6	344.5	352.6	365.0
70°	212.0	218.8	227.6	237.2	251.6	268.5	282.2	293.1	299.2	307.4	322.3
72.5°	181.5	189.3	197.6	207.2	218.8	233.1	245.1	256.0	259.9	266.5	276.1
75°	143.1	147.2	154.0	160.9	169.1	181.3	192.9	195.6	199.0	204.5	211.3
77.5°	108.3	111.9	114.6	119.2	125.7	135.5	141.7	145.7	146.5	148.6	155.3
80°	85.8	88.0	90.7	94.0	96.7	104.9	108.4	112.5	113.8	115.8	119.3
82.5°	63.0	65.0	66.7	69.5	73.9	77.2	80.6	84.6	84.9	86.4	87.2
85°	36.8	37.5	36.2	37.5	38.2	39.5	42.9	46.4	45.6	44.9	47.1
87.5°	14.6	14.5	13.8	15.3	14.1	14.5	14.3	14.7	15.7	16.7	17.6
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



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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: P333701-840

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1668.6	1673.4	1680.5	1688.7	1695.3	1702.3	1706.2	1706.2	1709.5	1716.6	1725.9
5°	1673.3	1691.0	1708.1	1729.9	1747.0	1766.7	1781.7	1796.0	1809.0	1825.3	1842.4
7.5°	1671.9	1701.4	1732.1	1766.5	1804.3	1834.4	1865.4	1889.7	1913.7	1945.0	1969.6
10°	1666.5	1704.7	1746.3	1789.9	1837.6	1879.2	1916.6	1950.8	1983.5	2017.5	2048.2
12.5°	1656.7	1705.3	1756.1	1808.5	1868.7	1916.2	1964.7	2000.9	2039.1	2076.4	2114.2
15°	1641.9	1699.2	1760.6	1833.5	1907.1	1960.2	2008.0	2055.1	2090.4	2132.7	2168.9
17.5°	1611.5	1685.4	1762.5	1842.2	1913.0	1974.7	2024.8	2069.5	2107.3	2153.7	2202.8
20°	1593.6	1673.3	1753.7	1839.0	1906.4	1969.8	2018.2	2064.6	2111.6	2172.2	2232.2
22.5°	1568.5	1653.7	1739.0	1819.9	1891.2	1952.4	2002.4	2059.1	2120.8	2189.7	2262.2
25°	1528.8	1616.8	1701.3	1778.3	1847.9	1910.6	1978.7	2055.1	2130.0	2220.7	2324.9
27.5°	1478.5	1563.3	1638.7	1720.1	1789.2	1869.0	1954.0	2036.8	2144.9	2269.6	2399.7
30°	1440.9	1521.4	1592.9	1669.9	1748.3	1836.2	1931.7	2029.1	2158.0	2304.5	2459.2
32.5°	1397.2	1470.1	1541.1	1615.4	1705.8	1802.4	1903.8	2023.2	2177.1	2343.8	2504.0
35°	1321.6	1387.0	1455.9	1538.3	1634.5	1739.5	1869.0	2014.2	2200.2	2379.4	2523.2
37.5°	1242.2	1293.9	1363.0	1450.1	1554.7	1676.2	1823.1	1999.5	2190.7	2351.5	2412.8
40°	1181.2	1229.6	1302.5	1393.9	1497.4	1630.4	1795.3	1976.6	2168.9	2280.7	2275.8
42.5°	1120.6	1169.6	1239.8	1331.7	1439.7	1588.4	1758.3	1946.6	2108.9	2151.4	2062.6
45°	1027.8	1073.5	1142.4	1235.1	1350.9	1507.0	1685.6	1866.2	1969.8	1901.0	1725.2
47.5°	933.2	977.5	1041.5	1132.3	1258.8	1422.1	1590.9	1739.2	1753.7	1605.9	1394.9
50°	871.1	912.6	973.3	1070.2	1192.8	1352.3	1515.2	1631.7	1595.6	1415.0	1197.6
52.5°	810.5	850.5	907.4	998.7	1124.1	1280.3	1425.7	1517.2	1433.7	1241.6	1046.0
55°	721.1	759.3	816.6	900.4	1014.2	1157.4	1284.9	1318.2	1195.5	1002.0	843.8
57.5°	636.2	664.2	720.7	794.9	904.6	1030.9	1122.2	1116.2	980.8	806.5	693.1
60°	580.1	605.2	659.1	727.3	831.5	944.7	1008.8	981.5	844.6	700.6	591.6
62.5°	527.7	551.3	596.4	659.1	748.7	847.1	893.7	856.1	726.7	600.4	513.6
65°	448.5	465.5	501.7	559.6	629.8	697.9	739.5	684.3	569.9	474.4	409.0
67.5°	374.5	389.2	421.3	462.9	511.3	558.4	575.3	523.5	434.4	370.1	324.1
70°	326.5	340.1	361.9	400.8	432.8	466.3	474.4	428.1	353.8	304.7	276.1
72.5°	280.6	293.3	312.4	339.7	361.9	381.1	385.0	341.9	285.1	251.3	229.1
75°	214.0	224.9	237.2	247.4	261.8	265.2	263.8	230.4	199.8	177.2	164.9
77.5°	157.3	161.8	169.4	173.4	174.1	173.8	166.8	145.7	129.9	120.7	115.6
80°	121.3	124.7	126.7	128.2	128.9	122.0	114.5	101.6	96.1	90.7	84.5
82.5°	88.1	90.4	92.4	92.7	89.0	83.3	76.3	69.9	66.1	63.4	61.1
85°	47.7	48.4	47.7	44.3	39.5	37.5	36.2	34.7	34.0	33.4	33.4
87.5°	17.2	15.7	13.1	13.8	13.9	13.5	13.7	13.3	12.9	13.0	13.1
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



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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



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4	1660.4
2.5°	1732.9	1732.9	1742.2	1741.6	1747.7	1745.5	1746.6
5°	1862.8	1874.4	1884.6	1891.5	1901.7	1904.4	1903.0
7.5°	1997.5	2023.3	2035.8	2053.0	2056.1	2065.1	2064.2
10°	2080.9	2106.2	2125.3	2140.2	2147.7	2157.3	2158.0
12.5°	2146.4	2167.8	2184.6	2198.6	2207.7	2210.7	2212.5
15°	2197.5	2221.3	2241.1	2260.9	2272.5	2281.3	2286.1
17.5°	2249.0	2285.8	2320.7	2347.5	2363.7	2377.3	2377.1
20°	2288.9	2331.1	2374.7	2405.4	2436.7	2450.3	2452.4
22.5°	2331.4	2396.0	2452.2	2499.7	2540.8	2555.1	2560.4
25°	2419.6	2504.2	2590.8	2657.6	2705.2	2733.2	2737.3
27.5°	2526.4	2640.8	2731.9	2793.5	2833.2	2853.9	2858.3
30°	2601.7	2707.3	2789.1	2835.5	2853.9	2856.6	2846.4
32.5°	2635.4	2714.4	2747.1	2744.4	2708.3	2684.3	2675.1
35°	2594.1	2577.8	2498.1	2402.7	2329.8	2283.4	2271.1
37.5°	2360.8	2219.7	2073.1	1928.8	1852.1	1813.0	1746.0
40°	2130.7	1929.7	1777.0	1655.6	1569.0	1499.5	1483.2
42.5°	1871.2	1663.6	1510.9	1406.9	1337.9	1290.1	1269.4
45°	1503.6	1325.0	1198.9	1119.2	1066.0	1031.3	1015.6
47.5°	1202.6	1064.4	972.5	913.5	873.0	842.7	834.2
50°	1037.4	927.0	849.3	799.5	768.8	745.7	736.1
52.5°	901.1	811.9	752.2	711.1	682.2	667.7	659.7
55°	743.7	666.6	623.7	591.0	574.6	563.0	557.5
57.5°	608.1	552.5	521.2	498.6	483.4	476.1	473.3
60°	532.3	488.7	460.1	442.3	432.1	422.6	419.9
62.5°	465.2	430.9	408.8	393.2	383.0	379.0	377.3
65°	374.9	352.3	336.0	326.5	318.3	316.9	316.3
67.5°	298.0	284.8	276.2	266.2	263.4	258.6	257.6
70°	254.9	246.1	235.8	232.5	229.0	224.3	224.9
72.5°	216.2	207.3	200.4	195.9	194.7	192.6	194.4
75°	158.1	155.4	152.7	149.3	147.9	147.9	147.2
77.5°	112.9	110.6	107.6	105.5	105.1	102.2	103.3
80°	81.8	78.4	77.1	77.7	75.6	74.9	74.9
82.5°	60.5	59.3	58.0	58.1	57.7	57.0	57.6
85°	33.4	32.7	32.7	32.0	32.0	31.3	31.3
87.5°	13.7	14.4	13.4	12.9	13.0	13.6	14.2
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



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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)