

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: P333700-830

Luminaire Tested: **S125RDIW-S1090D470U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333700-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDIW-S1090D470U830-4F0-1E-UDD-A
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 470 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5782.6 lumens
Efficiency: N/A
Efficacy: 125.2 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

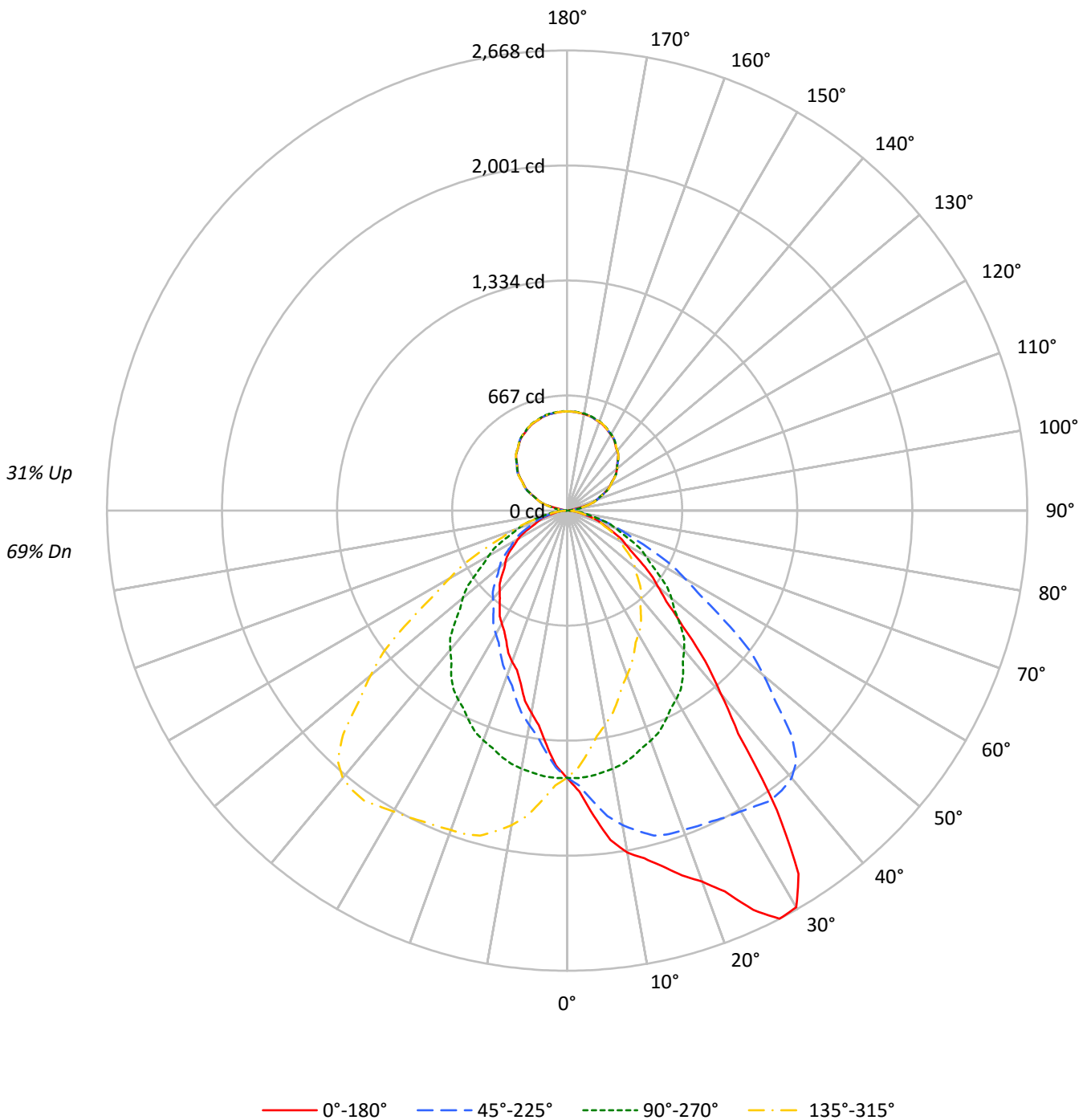
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69	69	69	69	69	69		
	1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	66	65	64	60	60	60	60	60	60		
	2	94	87	81	76	89	82	77	72	74	70	66	66	63	60	59	57	55	51	51	51	51	51	51		
	3	86	77	69	64	81	73	66	61	66	60	56	59	55	52	53	50	47	44	44	44	44	44	44		
	4	79	68	60	54	75	65	58	52	59	53	48	53	48	45	47	44	41	38	38	38	38	38	38		
	5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	43	39	36	33	33	33	33	33	33		
	6	67	55	47	41	63	53	45	40	48	42	37	43	38	34	39	35	32	29	29	29	29	29	29		
	7	62	50	42	36	59	48	40	35	43	37	33	39	34	31	36	32	28	26	26	26	26	26	26		
	8	58	45	38	32	55	44	36	31	40	34	29	36	31	27	33	29	25	23	23	23	23	23	23		
	9	54	42	34	29	51	40	33	28	37	31	26	33	28	25	30	26	23	21	21	21	21	21	21		
	10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	19	19	19	19	19	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10008	10008	10008	10008
5°	11514	10022	8851	10022
10°	13208	9971	7810	9971
15°	14266	9868	6942	9868
20°	15731	9750	6410	9750
25°	18206	9592	5947	9592
30°	19812	9426	5646	9426
35°	16712	9234	5367	9234
40°	11671	8887	5127	8887
45°	8658	8419	4892	8419
50°	6903	7932	4691	7932
55°	5860	7328	4513	7328
60°	5062	6788	4224	6788
65°	4511	6203	3636	6203
70°	3964	5682	3316	5682
75°	3429	4921	3112	4921
80°	2600	4139	2600	4139
85°	2164	3253	2453	3253



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	2.6
10°-20°	435.5	7.5
20°-30°	690.5	11.9
30°-40°	832.7	14.4
40°-50°	743.6	12.9
50°-60°	570.3	9.9
60°-70°	370.6	6.4
70°-80°	180.2	3.1
80°-90°	44.2	0.8
90°-100°	20.9	0.4
100°-110°	128.8	2.2
110°-120°	233.6	4.0
120°-130°	299.9	5.2
130°-140°	322.5	5.6
140°-150°	302.7	5.2
150°-160°	244.9	4.2
160°-170°	158.4	2.7
170°-180°	54.6	0.9
0°-30°	1274.6	22.0
0°-40°	2107.3	36.4
0°-60°	3421.2	59.2
0°-90°	4016.2	69.5
90°-120°	383.4	6.6
90°-150°	1308.5	22.6
90°-180°	1766.0	30.5
0°-180°	5782.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1550	1550	1550	1550	1550	
5°	1776	1546	1365	1546	1776	177
15°	2134	1476	1038	1476	2134	611
25°	2555	1346	835	1346	2555	1173
35°	2120	1171	681	1171	2120	1280
45°	948	922	536	922	948	756
55°	520	651	401	651	520	472
65°	295	406	238	406	295	294
75°	137	197	125	197	137	146
85°	29	44	33	44	29	34
90°	10	0	10	0	10	6
95°	9	24	9	24	9	7
105°	127	125	127	125	127	115
115°	234	235	234	235	234	232
125°	335	335	335	335	335	298
135°	416	418	416	418	416	321
145°	483	484	483	484	483	301
155°	529	533	529	533	529	244
165°	559	562	559	562	559	158
175°	573	575	573	575	573	54
180°	575	575	575	575	575	



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1630.1	1629.1	1631.2	1625.5	1626.1	1617.4	1617.4	1610.8	1602.1	1595.5	1592.4
5°	1776.1	1777.4	1774.9	1765.4	1759.0	1749.5	1738.6	1719.6	1703.6	1688.4	1676.3
7.5°	1926.6	1927.4	1919.0	1916.1	1900.1	1888.4	1864.3	1838.3	1815.3	1786.1	1763.7
10°	2014.1	2013.5	2004.5	1997.5	1983.6	1965.8	1942.2	1911.7	1883.0	1851.2	1820.7
12.5°	2065.0	2063.3	2060.5	2052.0	2039.0	2023.3	2003.3	1973.2	1938.0	1903.2	1867.6
15°	2133.7	2129.2	2121.0	2110.2	2091.7	2073.2	2051.0	2024.3	1990.6	1951.1	1918.1
17.5°	2218.7	2218.8	2206.1	2191.0	2166.0	2133.4	2099.0	2056.0	2010.2	1966.8	1931.6
20°	2288.9	2287.0	2274.3	2245.0	2216.4	2175.7	2136.3	2083.4	2027.4	1970.9	1926.9
22.5°	2389.7	2384.7	2371.4	2333.1	2288.7	2236.3	2176.0	2111.4	2043.7	1979.4	1921.8
25°	2554.9	2551.0	2524.9	2480.4	2418.1	2337.2	2258.3	2169.9	2072.7	1988.0	1918.1
27.5°	2667.8	2663.6	2644.3	2607.3	2549.8	2464.7	2358.0	2239.8	2118.3	2001.9	1901.0
30°	2656.7	2666.2	2663.6	2646.5	2603.2	2526.9	2428.3	2295.3	2150.9	2014.1	1893.9
32.5°	2496.8	2505.4	2527.7	2561.5	2564.0	2533.5	2459.8	2337.0	2187.5	2031.9	1888.3
35°	2119.7	2131.2	2174.4	2242.5	2331.6	2405.9	2421.2	2355.0	2220.8	2053.5	1879.9
37.5°	1629.6	1692.1	1728.6	1800.3	1934.9	2071.7	2203.4	2251.9	2194.7	2044.7	1866.2
40°	1384.3	1399.6	1464.4	1545.2	1658.5	1801.0	1988.7	2124.1	2128.6	2024.3	1844.8
42.5°	1184.8	1204.1	1248.7	1313.2	1410.1	1552.7	1746.4	1925.1	2008.0	1968.3	1816.8
45°	947.9	962.5	994.9	1044.6	1119.0	1236.7	1403.4	1610.1	1774.2	1838.5	1741.8
47.5°	778.6	786.6	814.8	852.6	907.7	993.4	1122.5	1301.9	1498.8	1636.8	1623.2
50°	687.0	696.0	717.6	746.2	792.7	865.2	968.3	1117.8	1320.7	1489.2	1523.0
52.5°	615.8	623.2	636.7	663.7	702.1	757.8	841.0	976.3	1158.9	1338.1	1416.1
55°	520.4	525.5	536.3	551.6	582.1	622.2	694.1	787.6	935.2	1115.8	1230.3
57.5°	441.8	444.3	451.2	465.3	486.4	515.7	567.6	646.9	752.7	915.4	1041.8
60°	391.9	394.5	403.3	412.8	429.4	456.1	496.8	552.1	653.9	788.2	916.1
62.5°	352.1	353.7	357.5	367.0	381.5	402.2	434.2	479.4	560.3	678.3	799.0
65°	295.2	295.8	297.1	304.7	313.6	328.9	349.9	381.7	442.8	531.9	638.7
67.5°	240.4	241.4	245.8	248.5	257.8	265.8	278.1	302.5	345.4	405.5	488.6
70°	209.9	209.3	213.8	217.0	220.1	229.7	237.9	257.7	284.4	330.2	399.5
72.5°	181.4	179.7	181.7	182.9	187.0	193.5	201.8	213.9	234.5	266.1	319.1
75°	137.4	138.1	138.1	139.3	142.5	145.1	147.6	153.9	165.4	186.4	215.0
77.5°	96.4	95.4	98.1	98.5	100.4	103.2	105.4	107.9	112.6	121.2	136.0
80°	69.9	69.9	70.6	72.5	71.9	73.1	76.3	78.9	84.6	89.7	94.8
82.5°	53.7	53.2	53.8	54.2	54.1	55.3	56.5	57.0	59.2	61.7	65.2
85°	29.2	29.2	29.9	29.9	30.5	30.5	31.2	31.2	31.2	31.8	32.4
87.5°	13.3	12.7	12.1	12.1	12.5	13.5	12.8	12.3	12.2	12.1	12.4
90°	10.3	10.0	9.7	9.4	9.1	8.7	8.2	7.7	7.3	6.8	6.1
92.5°	9.5	9.4	9.3	9.1	9.0	8.7	8.2	7.7	7.3	6.8	6.2
95°	9.0	9.0	9.0	9.0	9.0	8.7	8.2	7.7	7.3	6.8	10.5
97.5°	9.0	9.0	9.0	9.0	9.0	10.3	13.0	15.6	18.3	21.0	28.1
100°	9.0	9.3	9.7	10.1	10.5	17.7	31.9	46.0	60.0	74.2	73.8
102.5°	53.6	60.0	66.5	73.0	79.5	84.0	86.6	89.4	92.0	94.6	94.4
105°	126.7	126.8	126.9	127.0	127.1	127.1	127.1	127.1	127.1	127.1	127.1
107.5°	159.7	159.9	160.2	160.5	160.8	160.9	160.9	160.9	160.9	160.8	160.6
110°	182.5	182.4	182.3	182.2	182.1	182.2	182.5	182.8	183.0	183.3	183.1



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	202.9	203.1	203.2	203.4	203.5	203.8	204.1	204.4	204.8	205.2	205.1
115°	233.7	234.2	234.8	235.4	235.9	236.4	236.8	237.1	237.5	237.9	237.8
117.5°	266.5	266.6	266.9	267.1	267.4	267.8	268.2	268.7	269.3	269.8	269.4
120°	286.5	287.0	287.5	287.9	288.4	288.8	289.0	289.2	289.4	289.5	289.3
122.5°	305.7	306.2	306.7	307.3	307.8	308.2	308.4	308.6	308.8	309.0	308.9
125°	334.7	335.0	335.3	335.5	335.8	336.2	336.6	337.0	337.3	337.7	337.7
127.5°	359.2	359.9	360.6	361.3	362.0	362.5	362.7	362.9	363.1	363.3	363.4
130°	376.9	377.4	377.9	378.3	378.8	379.2	379.5	379.8	380.0	380.3	380.2
132.5°	393.3	393.8	394.3	394.7	395.2	395.5	395.5	395.6	395.7	395.7	395.9
135°	415.8	416.3	416.9	417.5	418.0	418.4	418.6	418.8	419.0	419.1	419.3
137.5°	438.3	438.8	439.2	439.7	440.3	440.5	440.5	440.4	440.4	440.3	440.5
140°	451.6	452.1	452.7	453.3	453.8	454.0	453.8	453.6	453.5	453.3	453.4
142.5°	464.2	464.8	465.3	465.9	466.5	466.7	466.7	466.7	466.6	466.6	466.5
145°	482.7	483.2	483.8	484.4	484.9	485.2	485.1	485.0	484.9	484.8	484.8
147.5°	497.9	498.6	499.4	500.0	500.7	501.0	500.9	500.8	500.6	500.5	500.4
150°	507.8	508.6	509.3	510.1	510.9	511.1	511.0	510.8	510.6	510.4	510.2
152.5°	517.1	517.7	518.4	519.1	519.8	520.0	519.8	519.6	519.4	519.2	519.1
155°	529.1	529.9	530.7	531.4	532.2	532.4	532.2	531.9	531.6	531.3	531.1
157.5°	539.3	540.1	540.8	541.6	542.3	542.5	542.2	542.0	541.7	541.4	541.3
160°	545.8	546.6	547.3	548.1	548.8	549.0	548.7	548.3	547.9	547.5	547.4
162.5°	551.6	552.4	553.3	554.1	555.0	555.1	554.6	554.0	553.5	553.0	552.9
165°	559.4	560.2	560.9	561.8	562.5	562.6	562.0	561.5	560.8	560.2	560.2
167.5°	564.9	565.7	566.6	567.4	568.4	568.4	567.7	567.0	566.4	565.6	565.5
170°	568.0	568.8	569.7	570.5	571.4	571.5	570.7	569.9	569.1	568.4	568.3
172.5°	570.0	570.9	571.7	572.6	573.4	573.5	572.8	572.1	571.5	570.8	570.6
175°	572.7	573.5	574.4	575.2	576.1	576.1	575.3	574.6	573.8	573.1	573.0
177.5°	574.2	574.8	575.4	576.0	576.6	576.6	576.1	575.6	575.0	574.6	574.5
180°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1592.4	1588.8	1582.2	1576.1	1568.5	1561.9	1557.4	1551.7	1544.6	1536.0	1528.8
5°	1662.9	1648.9	1630.5	1614.6	1594.2	1578.3	1561.8	1545.9	1529.9	1509.6	1491.8
7.5°	1741.1	1712.1	1684.0	1648.7	1616.6	1588.0	1560.5	1532.7	1505.4	1476.5	1448.7
10°	1788.9	1753.9	1715.1	1670.6	1629.8	1591.0	1555.4	1520.4	1483.6	1451.0	1416.1
12.5°	1833.7	1788.5	1744.1	1687.9	1639.0	1591.6	1546.2	1502.6	1463.2	1421.1	1383.6
15°	1874.2	1829.6	1780.0	1711.3	1643.2	1585.9	1532.5	1475.9	1426.9	1379.8	1337.8
17.5°	1889.8	1843.0	1785.5	1719.4	1645.0	1573.0	1504.1	1442.1	1384.4	1329.6	1282.3
20°	1883.7	1838.5	1779.3	1716.4	1636.8	1561.8	1487.3	1418.6	1354.4	1296.5	1246.2
22.5°	1868.9	1822.2	1765.1	1698.6	1623.1	1543.4	1464.0	1390.6	1323.3	1263.4	1208.6
25°	1846.8	1783.2	1724.7	1659.7	1587.9	1509.0	1426.9	1346.1	1274.2	1213.1	1153.4
27.5°	1823.7	1744.4	1669.9	1605.4	1529.5	1459.1	1380.0	1297.1	1221.5	1159.3	1098.0
30°	1802.9	1713.8	1631.7	1558.6	1486.7	1419.9	1344.8	1264.0	1186.5	1122.2	1059.9
32.5°	1776.9	1682.2	1592.0	1507.7	1438.3	1372.1	1304.1	1226.9	1151.3	1085.1	1021.7
35°	1744.4	1623.5	1525.5	1435.8	1358.9	1294.6	1233.5	1171.2	1095.5	1026.8	965.1
37.5°	1701.6	1564.4	1451.0	1353.4	1272.1	1207.7	1159.4	1102.5	1033.4	967.6	910.3
40°	1675.7	1521.7	1397.6	1301.0	1215.7	1147.6	1102.5	1054.1	991.2	929.4	872.1
42.5°	1641.1	1482.5	1343.7	1242.9	1157.2	1091.7	1045.9	1003.7	950.9	892.8	831.4
45°	1573.2	1406.6	1260.8	1152.7	1066.2	1001.9	959.3	921.8	881.7	828.3	774.9
47.5°	1484.9	1327.3	1174.9	1056.8	972.0	912.4	871.0	841.4	812.8	767.3	715.4
50°	1414.2	1262.2	1113.2	998.8	908.4	851.8	813.0	789.5	763.4	722.1	678.8
52.5°	1330.7	1195.0	1049.1	932.1	846.9	793.8	756.5	733.0	711.5	677.8	636.5
55°	1199.2	1080.2	946.6	840.4	762.1	708.7	673.1	650.8	638.1	609.4	577.0
57.5°	1047.4	962.1	844.3	741.9	672.7	619.9	593.8	574.9	560.4	540.3	517.4
60°	941.5	881.7	776.1	678.8	615.2	564.9	541.4	525.5	512.1	494.9	477.1
62.5°	834.2	790.6	698.8	615.2	556.7	514.5	492.5	478.2	462.8	451.2	433.9
65°	690.2	651.4	587.8	522.3	468.3	434.5	418.6	405.9	396.3	383.6	371.6
67.5°	537.0	521.1	477.2	432.1	393.2	363.3	349.5	340.6	329.1	321.5	313.2
70°	442.8	435.2	404.0	374.1	337.8	317.4	304.7	300.9	286.9	279.3	273.5
72.5°	359.3	355.7	337.8	317.1	291.5	273.7	261.9	257.7	248.7	242.6	238.9
75°	246.2	247.5	244.3	230.9	221.4	209.9	199.7	197.2	190.9	185.8	182.6
77.5°	155.7	162.2	162.5	161.8	158.1	151.0	146.8	145.0	138.6	136.8	136.0
80°	106.9	113.9	120.3	119.6	118.3	116.4	113.2	111.3	108.1	106.2	105.0
82.5°	71.3	77.8	83.0	86.5	86.2	84.4	82.2	81.3	80.7	79.3	79.0
85°	33.7	35.0	36.9	41.4	44.5	45.1	44.5	43.9	41.9	42.6	43.3
87.5°	12.8	12.6	13.0	12.9	12.3	14.6	16.0	16.4	15.5	14.6	13.8
90°	5.5	4.8	4.1	3.5	2.7	2.0	1.2	0.5	1.2	2.0	2.7
92.5°	5.7	5.1	4.4	4.4	5.0	5.5	6.0	6.6	6.0	5.5	5.0
95°	14.0	17.6	21.2	23.2	23.5	23.8	24.0	24.3	24.0	23.8	23.5
97.5°	35.3	42.3	49.5	52.8	52.3	51.7	51.3	50.7	51.3	51.7	52.3
100°	73.4	73.0	72.7	72.4	72.1	71.8	71.5	71.2	71.5	71.8	72.1
102.5°	94.2	94.0	93.8	93.5	93.1	92.7	92.4	92.0	92.4	92.7	93.1
105°	127.1	127.1	127.1	126.9	126.5	126.1	125.7	125.4	125.7	126.1	126.5
107.5°	160.4	160.2	160.0	159.9	159.9	159.9	159.9	159.9	159.9	159.9	159.9
110°	182.9	182.8	182.6	182.5	182.5	182.5	182.5	182.5	182.5	182.5	182.5



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	205.0	204.8	204.7	204.5	204.3	204.1	203.9	203.7	203.9	204.1	204.3
115°	237.7	237.6	237.5	237.2	236.8	236.3	235.8	235.4	235.8	236.3	236.8
117.5°	269.0	268.6	268.3	268.2	268.2	268.2	268.2	268.2	268.2	268.2	268.2
120°	289.0	288.7	288.4	288.3	288.4	288.5	288.6	288.7	288.6	288.5	288.4
122.5°	308.7	308.6	308.4	308.2	307.8	307.5	307.1	306.8	307.1	307.5	307.8
125°	337.7	337.7	337.7	337.3	336.7	336.0	335.4	334.7	335.4	336.0	336.7
127.5°	363.4	363.4	363.5	363.4	362.9	362.4	361.9	361.4	361.9	362.4	362.9
130°	380.1	380.0	379.9	379.7	379.2	378.7	378.2	377.8	378.2	378.7	379.2
132.5°	396.2	396.3	396.5	396.3	395.8	395.3	394.7	394.2	394.7	395.3	395.8
135°	419.5	419.7	419.9	419.7	419.1	418.6	418.0	417.5	418.0	418.6	419.1
137.5°	440.6	440.8	441.0	440.8	440.4	439.8	439.3	438.8	439.3	439.8	440.4
140°	453.5	453.6	453.6	453.6	453.4	453.2	453.0	452.8	453.0	453.2	453.4
142.5°	466.3	466.2	466.0	465.9	465.8	465.7	465.6	465.4	465.6	465.7	465.8
145°	484.8	484.8	484.8	484.7	484.6	484.4	484.2	484.0	484.2	484.4	484.6
147.5°	500.3	500.2	500.0	500.0	500.0	500.1	500.1	500.2	500.1	500.1	500.0
150°	510.0	509.8	509.6	509.6	509.8	510.0	510.2	510.4	510.2	510.0	509.8
152.5°	518.9	518.7	518.5	518.6	519.1	519.4	519.9	520.3	519.9	519.4	519.1
155°	530.9	530.7	530.6	530.7	531.3	531.9	532.4	533.0	532.4	531.9	531.3
157.5°	541.3	541.3	541.3	541.4	541.8	542.2	542.4	542.8	542.4	542.2	541.8
160°	547.3	547.2	547.1	547.3	547.9	548.5	549.0	549.6	549.0	548.5	547.9
162.5°	552.8	552.7	552.6	552.8	553.4	553.9	554.5	555.1	554.5	553.9	553.4
165°	560.1	560.0	559.9	560.2	560.7	561.3	561.8	562.4	561.8	561.3	560.7
167.5°	565.4	565.3	565.2	565.5	566.1	566.8	567.3	567.9	567.3	566.8	566.1
170°	568.2	568.1	568.0	568.3	568.9	569.6	570.3	571.0	570.3	569.6	568.9
172.5°	570.4	570.2	570.1	570.3	571.0	571.7	572.3	573.0	572.3	571.7	571.0
175°	572.9	572.8	572.7	573.0	573.5	574.1	574.7	575.2	574.7	574.1	573.5
177.5°	574.4	574.3	574.2	574.4	574.9	575.3	575.8	576.3	575.8	575.3	574.9
180°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1523.7	1516.6	1511.6	1501.4	1494.2	1491.2	1485.5	1484.0	1489.6	1485.5	1485.1
5°	1478.5	1460.0	1445.4	1430.7	1414.9	1404.7	1389.4	1386.9	1383.0	1377.2	1376.0
7.5°	1424.1	1400.1	1381.2	1357.1	1336.1	1319.2	1300.0	1291.0	1286.1	1278.7	1268.8
10°	1387.4	1358.9	1333.4	1309.2	1283.2	1262.2	1243.0	1228.4	1218.9	1209.9	1206.2
12.5°	1351.3	1322.2	1289.6	1260.4	1231.2	1207.7	1186.6	1177.0	1166.5	1156.0	1147.2
15°	1295.2	1256.4	1220.8	1187.0	1162.2	1136.8	1116.4	1102.5	1086.6	1082.1	1065.0
17.5°	1235.7	1197.6	1155.9	1120.4	1091.7	1063.7	1041.2	1025.4	1013.4	997.0	989.1
20°	1198.5	1153.4	1112.7	1080.2	1048.4	1015.3	992.4	979.0	967.6	954.2	947.9
22.5°	1158.9	1114.7	1073.0	1034.9	1002.6	970.1	953.8	939.9	926.9	914.5	906.2
25°	1100.5	1056.0	1012.1	972.7	939.0	915.4	896.4	880.4	873.5	861.4	852.4
27.5°	1042.9	995.6	950.1	910.7	884.3	861.0	845.4	832.7	820.1	809.5	801.8
30°	1005.8	957.4	907.8	876.7	848.7	826.3	809.2	797.1	787.6	778.1	772.3
32.5°	968.7	918.8	874.7	841.0	814.5	795.3	777.6	766.1	756.0	745.5	738.7
35°	909.1	858.2	822.6	789.5	763.4	745.6	733.5	717.0	708.7	701.1	694.1
37.5°	853.8	806.4	767.9	738.9	716.1	698.5	682.9	673.9	663.7	656.9	651.0
40°	813.0	769.8	734.8	704.3	687.7	668.0	653.4	641.9	634.2	625.4	619.0
42.5°	776.4	736.1	702.2	674.7	654.1	637.4	623.3	611.9	602.2	595.9	590.5
45°	724.6	684.5	651.4	625.9	606.9	591.0	576.4	570.6	557.9	550.3	547.7
47.5°	671.0	635.2	603.2	579.8	560.2	545.2	531.4	519.7	512.7	505.2	501.1
50°	634.9	600.5	570.6	547.7	528.7	512.1	499.4	491.7	482.2	475.2	470.1
52.5°	598.8	566.9	537.1	515.2	498.6	482.1	467.9	460.2	451.2	446.7	443.2
55°	547.1	513.4	488.0	466.3	449.1	433.9	420.5	412.8	407.2	402.7	401.4
57.5°	488.6	461.8	438.2	418.7	400.9	386.5	374.8	367.6	362.5	361.8	358.1
60°	450.4	426.2	404.6	383.6	368.3	355.0	344.8	336.5	331.4	330.8	329.5
62.5°	412.3	389.1	369.0	350.5	336.8	324.0	314.2	305.0	301.9	298.8	296.0
65°	355.6	334.6	318.1	303.4	288.8	278.0	268.4	262.8	255.7	251.9	245.0
67.5°	300.0	283.7	267.9	255.5	244.0	233.8	225.8	217.4	212.6	209.5	204.4
70°	263.3	250.6	234.8	221.4	212.4	204.2	197.8	188.3	185.1	182.6	180.0
72.5°	228.8	217.5	204.2	193.4	184.5	176.7	169.4	164.9	161.7	159.2	157.7
75°	180.0	169.2	157.8	150.1	143.7	137.4	133.6	130.4	129.1	128.5	125.9
77.5°	132.2	126.5	117.3	111.2	107.0	104.4	101.0	99.3	99.2	96.4	95.6
80°	101.1	97.9	90.3	87.8	84.6	82.1	80.1	77.0	73.8	72.5	70.6
82.5°	75.2	72.0	69.0	64.8	62.2	60.7	58.8	57.6	58.1	56.3	55.3
85°	40.1	36.9	35.6	35.0	33.7	35.0	34.3	33.7	33.1	32.4	33.1
87.5°	13.4	13.6	13.2	14.3	12.9	13.6	13.7	13.3	13.4	13.5	13.0
90°	3.5	4.1	4.8	5.5	6.1	6.8	7.3	7.7	8.2	8.7	9.1
92.5°	4.4	4.4	5.1	5.7	6.2	6.8	7.3	7.7	8.2	8.7	9.0
95°	23.2	21.2	17.6	14.0	10.5	6.8	7.3	7.7	8.2	8.7	9.0
97.5°	52.8	49.5	42.3	35.3	28.1	21.0	18.3	15.6	13.0	10.3	9.0
100°	72.4	72.7	73.0	73.4	73.8	74.2	60.0	46.0	31.9	17.7	10.5
102.5°	93.5	93.8	94.0	94.2	94.4	94.6	92.0	89.4	86.6	84.0	79.5
105°	126.9	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1
107.5°	159.9	160.0	160.2	160.4	160.6	160.8	160.9	160.9	160.9	160.9	160.8
110°	182.5	182.6	182.8	182.9	183.1	183.3	183.0	182.8	182.5	182.2	182.1



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	204.5	204.7	204.8	205.0	205.1	205.2	204.8	204.4	204.1	203.8	203.5
115°	237.2	237.5	237.6	237.7	237.8	237.9	237.5	237.1	236.8	236.4	235.9
117.5°	268.2	268.3	268.6	269.0	269.4	269.8	269.3	268.7	268.2	267.8	267.4
120°	288.3	288.4	288.7	289.0	289.3	289.5	289.4	289.2	289.0	288.8	288.4
122.5°	308.2	308.4	308.6	308.7	308.9	309.0	308.8	308.6	308.4	308.2	307.8
125°	337.3	337.7	337.7	337.7	337.7	337.7	337.3	337.0	336.6	336.2	335.8
127.5°	363.4	363.5	363.4	363.4	363.4	363.3	363.1	362.9	362.7	362.5	362.0
130°	379.7	379.9	380.0	380.1	380.2	380.3	380.0	379.8	379.5	379.2	378.8
132.5°	396.3	396.5	396.3	396.2	395.9	395.7	395.7	395.6	395.5	395.5	395.2
135°	419.7	419.9	419.7	419.5	419.3	419.1	419.0	418.8	418.6	418.4	418.0
137.5°	440.8	441.0	440.8	440.6	440.5	440.3	440.4	440.4	440.5	440.5	440.3
140°	453.6	453.6	453.6	453.5	453.4	453.3	453.5	453.6	453.8	454.0	453.8
142.5°	465.9	466.0	466.2	466.3	466.5	466.6	466.6	466.7	466.7	466.7	466.5
145°	484.7	484.8	484.8	484.8	484.8	484.8	484.9	485.0	485.1	485.2	484.9
147.5°	500.0	500.0	500.2	500.3	500.4	500.5	500.6	500.8	500.9	501.0	500.7
150°	509.6	509.6	509.8	510.0	510.2	510.4	510.6	510.8	511.0	511.1	510.9
152.5°	518.6	518.5	518.7	518.9	519.1	519.2	519.4	519.6	519.8	520.0	519.8
155°	530.7	530.6	530.7	530.9	531.1	531.3	531.6	531.9	532.2	532.4	532.2
157.5°	541.4	541.3	541.3	541.3	541.3	541.4	541.7	542.0	542.2	542.5	542.3
160°	547.3	547.1	547.2	547.3	547.4	547.5	547.9	548.3	548.7	549.0	548.8
162.5°	552.8	552.6	552.7	552.8	552.9	553.0	553.5	554.0	554.6	555.1	555.0
165°	560.2	559.9	560.0	560.1	560.2	560.2	560.8	561.5	562.0	562.6	562.5
167.5°	565.5	565.2	565.3	565.4	565.5	565.6	566.4	567.0	567.7	568.4	568.4
170°	568.3	568.0	568.1	568.2	568.3	568.4	569.1	569.9	570.7	571.5	571.4
172.5°	570.3	570.1	570.2	570.4	570.6	570.8	571.5	572.1	572.8	573.5	573.4
175°	573.0	572.7	572.8	572.9	573.0	573.1	573.8	574.6	575.3	576.1	576.1
177.5°	574.4	574.2	574.3	574.4	574.5	574.6	575.0	575.6	576.1	576.6	576.6
180°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1484.5	1478.9	1477.4	1479.4	1477.4	1478.9	1484.5	1485.1	1485.5	1489.6	1484.0
5°	1369.7	1363.3	1366.5	1365.2	1366.5	1363.3	1369.7	1376.0	1377.2	1383.0	1386.9
7.5°	1268.7	1260.7	1252.4	1255.0	1252.4	1260.7	1268.7	1268.8	1278.7	1286.1	1291.0
10°	1197.9	1191.6	1187.7	1190.9	1187.7	1191.6	1197.9	1206.2	1209.9	1218.9	1228.4
12.5°	1138.3	1134.5	1131.2	1129.8	1131.2	1134.5	1138.3	1147.2	1156.0	1166.5	1177.0
15°	1057.3	1049.7	1046.5	1038.2	1046.5	1049.7	1057.3	1065.0	1082.1	1086.6	1102.5
17.5°	982.6	980.1	971.8	968.3	971.8	980.1	982.6	989.1	997.0	1013.4	1025.4
20°	938.3	935.8	927.6	932.6	927.6	935.8	938.3	947.9	954.2	967.6	979.0
22.5°	901.7	896.1	893.4	891.9	893.4	896.1	901.7	906.2	914.5	926.9	939.9
25°	849.9	841.6	838.5	834.6	838.5	841.6	849.9	852.4	861.4	873.5	880.4
27.5°	798.2	793.8	789.6	788.6	789.6	793.8	798.2	801.8	809.5	820.1	832.7
30°	764.7	760.3	757.1	757.1	757.1	760.3	764.7	772.3	778.1	787.6	797.1
32.5°	734.6	731.2	728.0	727.5	728.0	731.2	734.6	738.7	745.5	756.0	766.1
35°	690.9	685.8	684.5	680.7	684.5	685.8	690.9	694.1	701.1	708.7	717.0
37.5°	645.5	641.2	641.1	640.7	641.1	641.2	645.5	651.0	656.9	663.7	673.9
40°	616.4	613.2	612.7	608.1	612.7	613.2	616.4	619.0	625.4	634.2	641.9
42.5°	585.4	583.7	581.5	579.7	581.5	583.7	585.4	590.5	595.9	602.2	611.9
45°	543.3	538.9	538.9	535.6	538.9	538.9	543.3	547.7	550.3	557.9	570.6
47.5°	499.7	496.3	496.7	493.4	496.7	496.3	499.7	501.1	505.2	512.7	519.7
50°	470.8	468.8	468.3	466.9	468.3	468.8	470.8	470.1	475.2	482.2	491.7
52.5°	441.8	440.8	443.3	440.5	443.3	440.8	441.8	443.2	446.7	451.2	460.2
55°	402.7	400.8	404.6	400.8	404.6	400.8	402.7	401.4	402.7	407.2	412.8
57.5°	357.8	356.0	359.4	357.5	359.4	356.0	357.8	358.1	361.8	362.5	367.6
60°	328.3	324.4	326.3	327.0	326.3	324.4	328.3	329.5	330.8	331.4	336.5
62.5°	293.1	290.9	292.3	289.4	292.3	290.9	293.1	296.0	298.8	301.9	305.0
65°	243.6	241.8	239.2	237.9	239.2	241.8	243.6	245.0	251.9	255.7	262.8
67.5°	204.7	200.1	200.0	201.0	200.0	200.1	204.7	204.4	209.5	212.6	217.4
70°	176.3	176.3	175.6	175.6	175.6	176.3	176.3	180.0	182.6	185.1	188.3
72.5°	156.4	155.9	154.7	154.2	154.7	155.9	156.4	157.7	159.2	161.7	164.9
75°	125.9	126.6	125.4	124.7	125.4	126.6	125.9	125.9	128.5	129.1	130.4
77.5°	93.0	90.3	91.7	90.3	91.7	90.3	93.0	95.6	96.4	99.2	99.3
80°	70.6	69.9	71.9	69.9	71.9	69.9	70.6	70.6	72.5	73.8	77.0
82.5°	55.9	55.2	56.1	54.7	56.1	55.2	55.9	55.3	56.3	58.1	57.6
85°	33.7	33.1	32.4	33.1	32.4	33.1	33.7	33.1	32.4	33.1	33.7
87.5°	13.6	13.1	13.2	13.3	13.2	13.1	13.6	13.0	13.5	13.4	13.3
90°	9.4	9.7	10.0	10.3	10.0	9.7	9.4	9.1	8.7	8.2	7.7
92.5°	9.1	9.3	9.4	9.5	9.4	9.3	9.1	9.0	8.7	8.2	7.7
95°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.7	8.2	7.7
97.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	10.3	13.0	15.6
100°	10.1	9.7	9.3	9.0	9.3	9.7	10.1	10.5	17.7	31.9	46.0
102.5°	73.0	66.5	60.0	53.6	60.0	66.5	73.0	79.5	84.0	86.6	89.4
105°	127.0	126.9	126.8	126.7	126.8	126.9	127.0	127.1	127.1	127.1	127.1
107.5°	160.5	160.2	159.9	159.7	159.9	160.2	160.5	160.8	160.9	160.9	160.9
110°	182.2	182.3	182.4	182.5	182.4	182.3	182.2	182.1	182.2	182.5	182.8



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	203.4	203.2	203.1	202.9	203.1	203.2	203.4	203.5	203.8	204.1	204.4
115°	235.4	234.8	234.2	233.7	234.2	234.8	235.4	235.9	236.4	236.8	237.1
117.5°	267.1	266.9	266.6	266.5	266.6	266.9	267.1	267.4	267.8	268.2	268.7
120°	287.9	287.5	287.0	286.5	287.0	287.5	287.9	288.4	288.8	289.0	289.2
122.5°	307.3	306.7	306.2	305.7	306.2	306.7	307.3	307.8	308.2	308.4	308.6
125°	335.5	335.3	335.0	334.7	335.0	335.3	335.5	335.8	336.2	336.6	337.0
127.5°	361.3	360.6	359.9	359.2	359.9	360.6	361.3	362.0	362.5	362.7	362.9
130°	378.3	377.9	377.4	376.9	377.4	377.9	378.3	378.8	379.2	379.5	379.8
132.5°	394.7	394.3	393.8	393.3	393.8	394.3	394.7	395.2	395.5	395.5	395.6
135°	417.5	416.9	416.3	415.8	416.3	416.9	417.5	418.0	418.4	418.6	418.8
137.5°	439.7	439.2	438.8	438.3	438.8	439.2	439.7	440.3	440.5	440.5	440.4
140°	453.3	452.7	452.1	451.6	452.1	452.7	453.3	453.8	454.0	453.8	453.6
142.5°	465.9	465.3	464.8	464.2	464.8	465.3	465.9	466.5	466.7	466.7	466.7
145°	484.4	483.8	483.2	482.7	483.2	483.8	484.4	484.9	485.2	485.1	485.0
147.5°	500.0	499.4	498.6	497.9	498.6	499.4	500.0	500.7	501.0	500.9	500.8
150°	510.1	509.3	508.6	507.8	508.6	509.3	510.1	510.9	511.1	511.0	510.8
152.5°	519.1	518.4	517.7	517.1	517.7	518.4	519.1	519.8	520.0	519.8	519.6
155°	531.4	530.7	529.9	529.1	529.9	530.7	531.4	532.2	532.4	532.2	531.9
157.5°	541.6	540.8	540.1	539.3	540.1	540.8	541.6	542.3	542.5	542.2	542.0
160°	548.1	547.3	546.6	545.8	546.6	547.3	548.1	548.8	549.0	548.7	548.3
162.5°	554.1	553.3	552.4	551.6	552.4	553.3	554.1	555.0	555.1	554.6	554.0
165°	561.8	560.9	560.2	559.4	560.2	560.9	561.8	562.5	562.6	562.0	561.5
167.5°	567.4	566.6	565.7	564.9	565.7	566.6	567.4	568.4	568.4	567.7	567.0
170°	570.5	569.7	568.8	568.0	568.8	569.7	570.5	571.4	571.5	570.7	569.9
172.5°	572.6	571.7	570.9	570.0	570.9	571.7	572.6	573.4	573.5	572.8	572.1
175°	575.2	574.4	573.5	572.7	573.5	574.4	575.2	576.1	576.1	575.3	574.6
177.5°	576.0	575.4	574.8	574.2	574.8	575.4	576.0	576.6	576.6	576.1	575.6
180°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1485.5	1491.2	1494.2	1501.4	1511.6	1516.6	1523.7	1528.8	1536.0	1544.6	1551.7
5°	1389.4	1404.7	1414.9	1430.7	1445.4	1460.0	1478.5	1491.8	1509.6	1529.9	1545.9
7.5°	1300.0	1319.2	1336.1	1357.1	1381.2	1400.1	1424.1	1448.7	1476.5	1505.4	1532.7
10°	1243.0	1262.2	1283.2	1309.2	1333.4	1358.9	1387.4	1416.1	1451.0	1483.6	1520.4
12.5°	1186.6	1207.7	1231.2	1260.4	1289.6	1322.2	1351.3	1383.6	1421.1	1463.2	1502.6
15°	1116.4	1136.8	1162.2	1187.0	1220.8	1256.4	1295.2	1337.8	1379.8	1426.9	1475.9
17.5°	1041.2	1063.7	1091.7	1120.4	1155.9	1197.6	1235.7	1282.3	1329.6	1384.4	1442.1
20°	992.4	1015.3	1048.4	1080.2	1112.7	1153.4	1198.5	1246.2	1296.5	1354.4	1418.6
22.5°	953.8	970.1	1002.6	1034.9	1073.0	1114.7	1158.9	1208.6	1263.4	1323.3	1390.6
25°	896.4	915.4	939.0	972.7	1012.1	1056.0	1100.5	1153.4	1213.1	1274.2	1346.1
27.5°	845.4	861.0	884.3	910.7	950.1	995.6	1042.9	1098.0	1159.3	1221.5	1297.1
30°	809.2	826.3	848.7	876.7	907.8	957.4	1005.8	1059.9	1122.2	1186.5	1264.0
32.5°	777.6	795.3	814.5	841.0	874.7	918.8	968.7	1021.7	1085.1	1151.3	1226.9
35°	733.5	745.6	763.4	789.5	822.6	858.2	909.1	965.1	1026.8	1095.5	1171.2
37.5°	682.9	698.5	716.1	738.9	767.9	806.4	853.8	910.3	967.6	1033.4	1102.5
40°	653.4	668.0	687.7	704.3	734.8	769.8	813.0	872.1	929.4	991.2	1054.1
42.5°	623.3	637.4	654.1	674.7	702.2	736.1	776.4	831.4	892.8	950.9	1003.7
45°	576.4	591.0	606.9	625.9	651.4	684.5	724.6	774.9	828.3	881.7	921.8
47.5°	531.4	545.2	560.2	579.8	603.2	635.2	671.0	715.4	767.3	812.8	841.4
50°	499.4	512.1	528.7	547.7	570.6	600.5	634.9	678.8	722.1	763.4	789.5
52.5°	467.9	482.1	498.6	515.2	537.1	566.9	598.8	636.5	677.8	711.5	733.0
55°	420.5	433.9	449.1	466.3	488.0	513.4	547.1	577.0	609.4	638.1	650.8
57.5°	374.8	386.5	400.9	418.7	438.2	461.8	488.6	517.4	540.3	560.4	574.9
60°	344.8	355.0	368.3	383.6	404.6	426.2	450.4	477.1	494.9	512.1	525.5
62.5°	314.2	324.0	336.8	350.5	369.0	389.1	412.3	433.9	451.2	462.8	478.2
65°	268.4	278.0	288.8	303.4	318.1	334.6	355.6	371.6	383.6	396.3	405.9
67.5°	225.8	233.8	244.0	255.5	267.9	283.7	300.0	313.2	321.5	329.1	340.6
70°	197.8	204.2	212.4	221.4	234.8	250.6	263.3	273.5	279.3	286.9	300.9
72.5°	169.4	176.7	184.5	193.4	204.2	217.5	228.8	238.9	242.6	248.7	257.7
75°	133.6	137.4	143.7	150.1	157.8	169.2	180.0	182.6	185.8	190.9	197.2
77.5°	101.0	104.4	107.0	111.2	117.3	126.5	132.2	136.0	136.8	138.6	145.0
80°	80.1	82.1	84.6	87.8	90.3	97.9	101.1	105.0	106.2	108.1	111.3
82.5°	58.8	60.7	62.2	64.8	69.0	72.0	75.2	79.0	79.3	80.7	81.3
85°	34.3	35.0	33.7	35.0	35.6	36.9	40.1	43.3	42.6	41.9	43.9
87.5°	13.7	13.6	12.9	14.3	13.2	13.6	13.4	13.8	14.6	15.5	16.4
90°	7.3	6.8	6.1	5.5	4.8	4.1	3.5	2.7	2.0	1.2	0.5
92.5°	7.3	6.8	6.2	5.7	5.1	4.4	4.4	5.0	5.5	6.0	6.6
95°	7.3	6.8	10.5	14.0	17.6	21.2	23.2	23.5	23.8	24.0	24.3
97.5°	18.3	21.0	28.1	35.3	42.3	49.5	52.8	52.3	51.7	51.3	50.7
100°	60.0	74.2	73.8	73.4	73.0	72.7	72.4	72.1	71.8	71.5	71.2
102.5°	92.0	94.6	94.4	94.2	94.0	93.8	93.5	93.1	92.7	92.4	92.0
105°	127.1	127.1	127.1	127.1	127.1	127.1	126.9	126.5	126.1	125.7	125.4
107.5°	160.9	160.8	160.6	160.4	160.2	160.0	159.9	159.9	159.9	159.9	159.9
110°	183.0	183.3	183.1	182.9	182.8	182.6	182.5	182.5	182.5	182.5	182.5



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	204.8	205.2	205.1	205.0	204.8	204.7	204.5	204.3	204.1	203.9	203.7
115°	237.5	237.9	237.8	237.7	237.6	237.5	237.2	236.8	236.3	235.8	235.4
117.5°	269.3	269.8	269.4	269.0	268.6	268.3	268.2	268.2	268.2	268.2	268.2
120°	289.4	289.5	289.3	289.0	288.7	288.4	288.3	288.4	288.5	288.6	288.7
122.5°	308.8	309.0	308.9	308.7	308.6	308.4	308.2	307.8	307.5	307.1	306.8
125°	337.3	337.7	337.7	337.7	337.7	337.7	337.3	336.7	336.0	335.4	334.7
127.5°	363.1	363.3	363.4	363.4	363.4	363.5	363.4	362.9	362.4	361.9	361.4
130°	380.0	380.3	380.2	380.1	380.0	379.9	379.7	379.2	378.7	378.2	377.8
132.5°	395.7	395.7	395.9	396.2	396.3	396.5	396.3	395.8	395.3	394.7	394.2
135°	419.0	419.1	419.3	419.5	419.7	419.9	419.7	419.1	418.6	418.0	417.5
137.5°	440.4	440.3	440.5	440.6	440.8	441.0	440.8	440.4	439.8	439.3	438.8
140°	453.5	453.3	453.4	453.5	453.6	453.6	453.6	453.4	453.2	453.0	452.8
142.5°	466.6	466.6	466.5	466.3	466.2	466.0	465.9	465.8	465.7	465.6	465.4
145°	484.9	484.8	484.8	484.8	484.8	484.8	484.7	484.6	484.4	484.2	484.0
147.5°	500.6	500.5	500.4	500.3	500.2	500.0	500.0	500.0	500.1	500.1	500.2
150°	510.6	510.4	510.2	510.0	509.8	509.6	509.6	509.8	510.0	510.2	510.4
152.5°	519.4	519.2	519.1	518.9	518.7	518.5	518.6	519.1	519.4	519.9	520.3
155°	531.6	531.3	531.1	530.9	530.7	530.6	530.7	531.3	531.9	532.4	533.0
157.5°	541.7	541.4	541.3	541.3	541.3	541.3	541.4	541.8	542.2	542.4	542.8
160°	547.9	547.5	547.4	547.3	547.2	547.1	547.3	547.9	548.5	549.0	549.6
162.5°	553.5	553.0	552.9	552.8	552.7	552.6	552.8	553.4	553.9	554.5	555.1
165°	560.8	560.2	560.2	560.1	560.0	559.9	560.2	560.7	561.3	561.8	562.4
167.5°	566.4	565.6	565.5	565.4	565.3	565.2	565.5	566.1	566.8	567.3	567.9
170°	569.1	568.4	568.3	568.2	568.1	568.0	568.3	568.9	569.6	570.3	571.0
172.5°	571.5	570.8	570.6	570.4	570.2	570.1	570.3	571.0	571.7	572.3	573.0
175°	573.8	573.1	573.0	572.9	572.8	572.7	573.0	573.5	574.1	574.7	575.2
177.5°	575.0	574.6	574.5	574.4	574.3	574.2	574.4	574.9	575.3	575.8	576.3
180°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1557.4	1561.9	1568.5	1576.1	1582.2	1588.8	1592.4	1592.4	1595.5	1602.1	1610.8
5°	1561.8	1578.3	1594.2	1614.6	1630.5	1648.9	1662.9	1676.3	1688.4	1703.6	1719.6
7.5°	1560.5	1588.0	1616.6	1648.7	1684.0	1712.1	1741.1	1763.7	1786.1	1815.3	1838.3
10°	1555.4	1591.0	1629.8	1670.6	1715.1	1753.9	1788.9	1820.7	1851.2	1883.0	1911.7
12.5°	1546.2	1591.6	1639.0	1687.9	1744.1	1788.5	1833.7	1867.6	1903.2	1938.0	1973.2
15°	1532.5	1585.9	1643.2	1711.3	1780.0	1829.6	1874.2	1918.1	1951.1	1990.6	2024.3
17.5°	1504.1	1573.0	1645.0	1719.4	1785.5	1843.0	1889.8	1931.6	1966.8	2010.2	2056.0
20°	1487.3	1561.8	1636.8	1716.4	1779.3	1838.5	1883.7	1926.9	1970.9	2027.4	2083.4
22.5°	1464.0	1543.4	1623.1	1698.6	1765.1	1822.2	1868.9	1921.8	1979.4	2043.7	2111.4
25°	1426.9	1509.0	1587.9	1659.7	1724.7	1783.2	1846.8	1918.1	1988.0	2072.7	2169.9
27.5°	1380.0	1459.1	1529.5	1605.4	1669.9	1744.4	1823.7	1901.0	2001.9	2118.3	2239.8
30°	1344.8	1419.9	1486.7	1558.6	1631.7	1713.8	1802.9	1893.9	2014.1	2150.9	2295.3
32.5°	1304.1	1372.1	1438.3	1507.7	1592.0	1682.2	1776.9	1888.3	2031.9	2187.5	2337.0
35°	1233.5	1294.6	1358.9	1435.8	1525.5	1623.5	1744.4	1879.9	2053.5	2220.8	2355.0
37.5°	1159.4	1207.7	1272.1	1353.4	1451.0	1564.4	1701.6	1866.2	2044.7	2194.7	2251.9
40°	1102.5	1147.6	1215.7	1301.0	1397.6	1521.7	1675.7	1844.8	2024.3	2128.6	2124.1
42.5°	1045.9	1091.7	1157.2	1242.9	1343.7	1482.5	1641.1	1816.8	1968.3	2008.0	1925.1
45°	959.3	1001.9	1066.2	1152.7	1260.8	1406.6	1573.2	1741.8	1838.5	1774.2	1610.1
47.5°	871.0	912.4	972.0	1056.8	1174.9	1327.3	1484.9	1623.2	1636.8	1498.8	1301.9
50°	813.0	851.8	908.4	998.8	1113.2	1262.2	1414.2	1523.0	1489.2	1320.7	1117.8
52.5°	756.5	793.8	846.9	932.1	1049.1	1195.0	1330.7	1416.1	1338.1	1158.9	976.3
55°	673.1	708.7	762.1	840.4	946.6	1080.2	1199.2	1230.3	1115.8	935.2	787.6
57.5°	593.8	619.9	672.7	741.9	844.3	962.1	1047.4	1041.8	915.4	752.7	646.9
60°	541.4	564.9	615.2	678.8	776.1	881.7	941.5	916.1	788.2	653.9	552.1
62.5°	492.5	514.5	556.7	615.2	698.8	790.6	834.2	799.0	678.3	560.3	479.4
65°	418.6	434.5	468.3	522.3	587.8	651.4	690.2	638.7	531.9	442.8	381.7
67.5°	349.5	363.3	393.2	432.1	477.2	521.1	537.0	488.6	405.5	345.4	302.5
70°	304.7	317.4	337.8	374.1	404.0	435.2	442.8	399.5	330.2	284.4	257.7
72.5°	261.9	273.7	291.5	317.1	337.8	355.7	359.3	319.1	266.1	234.5	213.9
75°	199.7	209.9	221.4	230.9	244.3	247.5	246.2	215.0	186.4	165.4	153.9
77.5°	146.8	151.0	158.1	161.8	162.5	162.2	155.7	136.0	121.2	112.6	107.9
80°	113.2	116.4	118.3	119.6	120.3	113.9	106.9	94.8	89.7	84.6	78.9
82.5°	82.2	84.4	86.2	86.5	83.0	77.8	71.3	65.2	61.7	59.2	57.0
85°	44.5	45.1	44.5	41.4	36.9	35.0	33.7	32.4	31.8	31.2	31.2
87.5°	16.0	14.6	12.3	12.9	13.0	12.6	12.8	12.4	12.1	12.2	12.3
90°	1.2	2.0	2.7	3.5	4.1	4.8	5.5	6.1	6.8	7.3	7.7
92.5°	6.0	5.5	5.0	4.4	4.4	5.1	5.7	6.2	6.8	7.3	7.7
95°	24.0	23.8	23.5	23.2	21.2	17.6	14.0	10.5	6.8	7.3	7.7
97.5°	51.3	51.7	52.3	52.8	49.5	42.3	35.3	28.1	21.0	18.3	15.6
100°	71.5	71.8	72.1	72.4	72.7	73.0	73.4	73.8	74.2	60.0	46.0
102.5°	92.4	92.7	93.1	93.5	93.8	94.0	94.2	94.4	94.6	92.0	89.4
105°	125.7	126.1	126.5	126.9	127.1	127.1	127.1	127.1	127.1	127.1	127.1
107.5°	159.9	159.9	159.9	159.9	160.0	160.2	160.4	160.6	160.8	160.9	160.9
110°	182.5	182.5	182.5	182.5	182.6	182.8	182.9	183.1	183.3	183.0	182.8



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	203.9	204.1	204.3	204.5	204.7	204.8	205.0	205.1	205.2	204.8	204.4
115°	235.8	236.3	236.8	237.2	237.5	237.6	237.7	237.8	237.9	237.5	237.1
117.5°	268.2	268.2	268.2	268.2	268.3	268.6	269.0	269.4	269.8	269.3	268.7
120°	288.6	288.5	288.4	288.3	288.4	288.7	289.0	289.3	289.5	289.4	289.2
122.5°	307.1	307.5	307.8	308.2	308.4	308.6	308.7	308.9	309.0	308.8	308.6
125°	335.4	336.0	336.7	337.3	337.7	337.7	337.7	337.7	337.7	337.3	337.0
127.5°	361.9	362.4	362.9	363.4	363.5	363.4	363.4	363.4	363.3	363.1	362.9
130°	378.2	378.7	379.2	379.7	379.9	380.0	380.1	380.2	380.3	380.0	379.8
132.5°	394.7	395.3	395.8	396.3	396.5	396.3	396.2	395.9	395.7	395.7	395.6
135°	418.0	418.6	419.1	419.7	419.9	419.7	419.5	419.3	419.1	419.0	418.8
137.5°	439.3	439.8	440.4	440.8	441.0	440.8	440.6	440.5	440.3	440.4	440.4
140°	453.0	453.2	453.4	453.6	453.6	453.6	453.5	453.4	453.3	453.5	453.6
142.5°	465.6	465.7	465.8	465.9	466.0	466.2	466.3	466.5	466.6	466.6	466.7
145°	484.2	484.4	484.6	484.7	484.8	484.8	484.8	484.8	484.8	484.9	485.0
147.5°	500.1	500.1	500.0	500.0	500.0	500.2	500.3	500.4	500.5	500.6	500.8
150°	510.2	510.0	509.8	509.6	509.6	509.8	510.0	510.2	510.4	510.6	510.8
152.5°	519.9	519.4	519.1	518.6	518.5	518.7	518.9	519.1	519.2	519.4	519.6
155°	532.4	531.9	531.3	530.7	530.6	530.7	530.9	531.1	531.3	531.6	531.9
157.5°	542.4	542.2	541.8	541.4	541.3	541.3	541.3	541.3	541.4	541.7	542.0
160°	549.0	548.5	547.9	547.3	547.1	547.2	547.3	547.4	547.5	547.9	548.3
162.5°	554.5	553.9	553.4	552.8	552.6	552.7	552.8	552.9	553.0	553.5	554.0
165°	561.8	561.3	560.7	560.2	559.9	560.0	560.1	560.2	560.2	560.8	561.5
167.5°	567.3	566.8	566.1	565.5	565.2	565.3	565.4	565.5	565.6	566.4	567.0
170°	570.3	569.6	568.9	568.3	568.0	568.1	568.2	568.3	568.4	569.1	569.9
172.5°	572.3	571.7	571.0	570.3	570.1	570.2	570.4	570.6	570.8	571.5	572.1
175°	574.7	574.1	573.5	573.0	572.7	572.8	572.9	573.0	573.1	573.8	574.6
177.5°	575.8	575.3	574.9	574.4	574.2	574.3	574.4	574.5	574.6	575.0	575.6
180°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1617.4	1617.4	1626.1	1625.5	1631.2	1629.1	1630.1
5°	1738.6	1749.5	1759.0	1765.4	1774.9	1777.4	1776.1
7.5°	1864.3	1888.4	1900.1	1916.1	1919.0	1927.4	1926.6
10°	1942.2	1965.8	1983.6	1997.5	2004.5	2013.5	2014.1
12.5°	2003.3	2023.3	2039.0	2052.0	2060.5	2063.3	2065.0
15°	2051.0	2073.2	2091.7	2110.2	2121.0	2129.2	2133.7
17.5°	2099.0	2133.4	2166.0	2191.0	2206.1	2218.8	2218.7
20°	2136.3	2175.7	2216.4	2245.0	2274.3	2287.0	2288.9
22.5°	2176.0	2236.3	2288.7	2333.1	2371.4	2384.7	2389.7
25°	2258.3	2337.2	2418.1	2480.4	2524.9	2551.0	2554.9
27.5°	2358.0	2464.7	2549.8	2607.3	2644.3	2663.6	2667.8
30°	2428.3	2526.9	2603.2	2646.5	2663.6	2666.2	2656.7
32.5°	2459.8	2533.5	2564.0	2561.5	2527.7	2505.4	2496.8
35°	2421.2	2405.9	2331.6	2242.5	2174.4	2131.2	2119.7
37.5°	2203.4	2071.7	1934.9	1800.3	1728.6	1692.1	1629.6
40°	1988.7	1801.0	1658.5	1545.2	1464.4	1399.6	1384.3
42.5°	1746.4	1552.7	1410.1	1313.2	1248.7	1204.1	1184.8
45°	1403.4	1236.7	1119.0	1044.6	994.9	962.5	947.9
47.5°	1122.5	993.4	907.7	852.6	814.8	786.6	778.6
50°	968.3	865.2	792.7	746.2	717.6	696.0	687.0
52.5°	841.0	757.8	702.1	663.7	636.7	623.2	615.8
55°	694.1	622.2	582.1	551.6	536.3	525.5	520.4
57.5°	567.6	515.7	486.4	465.3	451.2	444.3	441.8
60°	496.8	456.1	429.4	412.8	403.3	394.5	391.9
62.5°	434.2	402.2	381.5	367.0	357.5	353.7	352.1
65°	349.9	328.9	313.6	304.7	297.1	295.8	295.2
67.5°	278.1	265.8	257.8	248.5	245.8	241.4	240.4
70°	237.9	229.7	220.1	217.0	213.8	209.3	209.9
72.5°	201.8	193.5	187.0	182.9	181.7	179.7	181.4
75°	147.6	145.1	142.5	139.3	138.1	138.1	137.4
77.5°	105.4	103.2	100.4	98.5	98.1	95.4	96.4
80°	76.3	73.1	71.9	72.5	70.6	69.9	69.9
82.5°	56.5	55.3	54.1	54.2	53.8	53.2	53.7
85°	31.2	30.5	30.5	29.9	29.9	29.2	29.2
87.5°	12.8	13.5	12.5	12.1	12.1	12.7	13.3
90°	8.2	8.7	9.1	9.4	9.7	10.0	10.3
92.5°	8.2	8.7	9.0	9.1	9.3	9.4	9.5
95°	8.2	8.7	9.0	9.0	9.0	9.0	9.0
97.5°	13.0	10.3	9.0	9.0	9.0	9.0	9.0
100°	31.9	17.7	10.5	10.1	9.7	9.3	9.0
102.5°	86.6	84.0	79.5	73.0	66.5	60.0	53.6
105°	127.1	127.1	127.1	127.0	126.9	126.8	126.7
107.5°	160.9	160.9	160.8	160.5	160.2	159.9	159.7
110°	182.5	182.2	182.1	182.2	182.3	182.4	182.5



TEST NUMBER: P333700-830

CATALOG NUMBER: S125RDIW-S1090D470U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	204.1	203.8	203.5	203.4	203.2	203.1	202.9
115°	236.8	236.4	235.9	235.4	234.8	234.2	233.7
117.5°	268.2	267.8	267.4	267.1	266.9	266.6	266.5
120°	289.0	288.8	288.4	287.9	287.5	287.0	286.5
122.5°	308.4	308.2	307.8	307.3	306.7	306.2	305.7
125°	336.6	336.2	335.8	335.5	335.3	335.0	334.7
127.5°	362.7	362.5	362.0	361.3	360.6	359.9	359.2
130°	379.5	379.2	378.8	378.3	377.9	377.4	376.9
132.5°	395.5	395.5	395.2	394.7	394.3	393.8	393.3
135°	418.6	418.4	418.0	417.5	416.9	416.3	415.8
137.5°	440.5	440.5	440.3	439.7	439.2	438.8	438.3
140°	453.8	454.0	453.8	453.3	452.7	452.1	451.6
142.5°	466.7	466.7	466.5	465.9	465.3	464.8	464.2
145°	485.1	485.2	484.9	484.4	483.8	483.2	482.7
147.5°	500.9	501.0	500.7	500.0	499.4	498.6	497.9
150°	511.0	511.1	510.9	510.1	509.3	508.6	507.8
152.5°	519.8	520.0	519.8	519.1	518.4	517.7	517.1
155°	532.2	532.4	532.2	531.4	530.7	529.9	529.1
157.5°	542.2	542.5	542.3	541.6	540.8	540.1	539.3
160°	548.7	549.0	548.8	548.1	547.3	546.6	545.8
162.5°	554.6	555.1	555.0	554.1	553.3	552.4	551.6
165°	562.0	562.6	562.5	561.8	560.9	560.2	559.4
167.5°	567.7	568.4	568.4	567.4	566.6	565.7	564.9
170°	570.7	571.5	571.4	570.5	569.7	568.8	568.0
172.5°	572.8	573.5	573.4	572.6	571.7	570.9	570.0
175°	575.3	576.1	576.1	575.2	574.4	573.5	572.7
177.5°	576.1	576.6	576.6	576.0	575.4	574.8	574.2
180°	575.2	575.2	575.2	575.2	575.2	575.2	575.2

(END OF REPORT)