

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: P333586-830

Luminaire Tested: **S125RDIP-S1090D590U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

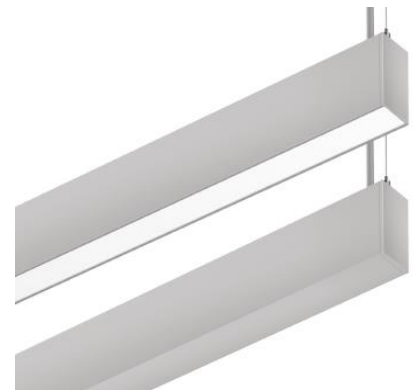
Test Information

Test Method: LM-79-08
Report Number: P333586-830
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: S125RDIP-S1090D590U830-4F0-1E-UDD-A
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6244.2 lumens
Efficiency: N/A
Efficacy: 128.0 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

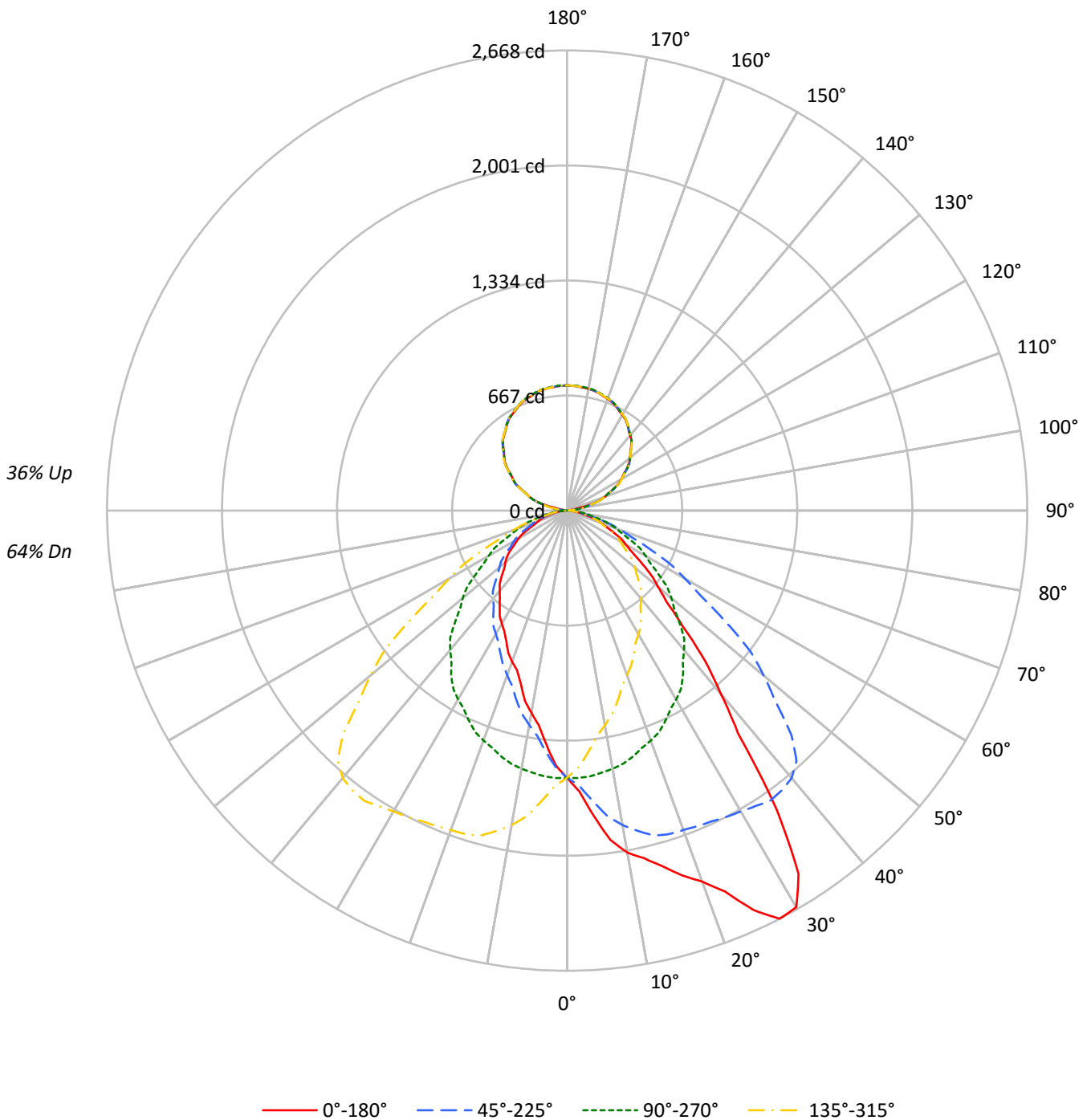
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64				
1	102	97	94	90	95	92	88	85	81	79	76	71	69	68	62	61	60	55				
2	93	86	80	75	87	81	75	71	72	68	64	63	60	57	55	53	51	47				
3	85	76	68	63	80	71	65	60	64	59	54	56	52	49	49	46	44	40				
4	78	67	59	53	73	64	57	51	57	51	47	50	46	42	44	41	38	35				
5	72	60	52	46	67	57	50	44	51	45	41	45	41	37	40	36	34	31				
6	66	54	46	40	62	51	44	39	46	40	36	41	36	33	37	33	30	27				
7	61	49	41	36	58	47	39	34	42	36	32	38	33	29	33	29	26	24				
8	57	45	37	32	54	43	35	30	38	32	28	34	30	26	31	27	24	22				
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	28	24	22	19				
10	50	38	30	25	47	36	29	25	33	27	23	29	25	21	26	22	20	18				

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	2.4
10°-20°	435.5	7.0
20°-30°	690.5	11.1
30°-40°	832.7	13.3
40°-50°	743.6	11.9
50°-60°	570.3	9.1
60°-70°	370.6	5.9
70°-80°	180.2	2.9
80°-90°	44.5	0.7
90°-100°	26.4	0.4
100°-110°	162.5	2.6
110°-120°	294.7	4.7
120°-130°	378.2	6.1
130°-140°	406.7	6.5
140°-150°	381.8	6.1
150°-160°	308.8	4.9
160°-170°	199.7	3.2
170°-180°	68.9	1.1
0°-30°	1274.6	20.4
0°-40°	2107.3	33.7
0°-60°	3421.2	54.8
0°-90°	4016.5	64.3
90°-120°	483.5	7.7
90°-150°	1650.2	26.4
90°-180°	2228.0	35.7
0°-180°	6244.2	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°	13	1	13	1	13	7
95°	11	31	11	31	11	9
105°	160	158	160	158	160	144
115°	295	297	295	297	295	293
125°	422	422	422	422	422	376
135°	524	526	524	526	524	405
145°	609	610	609	610	609	380
155°	667	672	667	672	667	308
165°	706	709	706	709	706	199
175°	722	726	722	726	722	69
180°	726	726	726	726	726	



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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°	13.8	13.2	12.6	12.5	13.0	13.9	13.3	12.6	12.5	12.4	12.7
90°	12.9	12.5	12.2	11.9	11.5	11.0	10.4	9.8	9.2	8.6	7.7
92.5°	12.1	11.9	11.7	11.5	11.4	11.0	10.4	9.8	9.2	8.6	7.8
95°	11.3	11.3	11.3	11.3	11.3	11.0	10.4	9.8	9.2	8.6	13.1
97.5°	11.3	11.3	11.3	11.3	11.3	13.0	16.3	19.7	23.1	26.5	35.4
100°	11.3	11.8	12.3	12.7	13.2	22.3	40.2	58.0	75.8	93.6	93.1
102.5°	67.7	75.8	83.9	92.0	100.2	105.9	109.2	112.6	116.0	119.4	119.1
105°	159.7	159.9	159.9	160.0	160.2	160.2	160.2	160.2	160.2	160.2	160.2
107.5°	201.3	201.7	202.1	202.5	202.7	202.9	202.9	202.9	202.8	202.8	202.6
110°	230.2	230.1	229.9	229.8	229.7	229.8	230.2	230.5	230.9	231.2	231.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	256.0	256.2	256.3	256.5	256.7	256.9	257.4	257.9	258.4	258.7	258.6
115°	294.7	295.4	296.1	296.8	297.6	298.1	298.6	299.1	299.6	300.1	299.9
117.5°	336.0	336.3	336.6	337.0	337.2	337.7	338.3	338.9	339.6	340.2	339.7
120°	361.4	361.9	362.6	363.2	363.7	364.2	364.4	364.7	364.9	365.1	364.8
122.5°	385.5	386.2	386.8	387.6	388.2	388.7	389.0	389.2	389.5	389.6	389.5
125°	422.2	422.5	422.8	423.2	423.6	424.0	424.4	425.0	425.5	425.9	425.9
127.5°	453.0	453.9	454.8	455.6	456.6	457.1	457.4	457.6	457.9	458.2	458.3
130°	475.4	476.0	476.5	477.2	477.8	478.2	478.6	479.0	479.3	479.7	479.6
132.5°	496.1	496.6	497.2	497.9	498.4	498.8	498.8	498.9	499.0	499.1	499.3
135°	524.3	525.0	525.8	526.5	527.2	527.6	527.9	528.1	528.4	528.6	528.9
137.5°	552.7	553.4	553.9	554.6	555.2	555.4	555.4	555.3	555.3	555.3	555.5
140°	569.5	570.2	570.9	571.7	572.3	572.6	572.3	572.1	571.8	571.7	571.7
142.5°	585.4	586.1	586.8	587.6	588.2	588.6	588.5	588.5	588.4	588.4	588.2
145°	608.7	609.4	610.2	610.9	611.6	611.9	611.8	611.7	611.5	611.4	611.4
147.5°	628.0	628.9	629.7	630.6	631.4	631.8	631.7	631.5	631.4	631.2	631.0
150°	640.5	641.4	642.3	643.4	644.3	644.6	644.4	644.1	643.9	643.7	643.5
152.5°	652.1	652.9	653.8	654.7	655.5	655.8	655.6	655.3	655.2	654.9	654.6
155°	667.3	668.4	669.3	670.2	671.2	671.5	671.1	670.8	670.4	670.1	669.8
157.5°	680.1	681.1	682.0	683.1	684.0	684.3	683.9	683.5	683.2	682.8	682.7
160°	688.3	689.3	690.2	691.2	692.1	692.4	691.9	691.4	691.0	690.5	690.3
162.5°	695.6	696.7	697.8	698.8	699.8	700.0	699.4	698.7	698.0	697.4	697.2
165°	705.5	706.5	707.5	708.4	709.4	709.5	708.8	708.0	707.3	706.6	706.5
167.5°	712.4	713.5	714.5	715.7	716.7	716.8	716.0	715.1	714.3	713.4	713.2
170°	716.3	717.4	718.4	719.5	720.6	720.7	719.7	718.8	717.7	716.8	716.7
172.5°	718.9	719.9	721.0	722.1	723.2	723.3	722.5	721.5	720.7	719.8	719.6
175°	722.2	723.3	724.3	725.5	726.5	726.6	725.6	724.6	723.7	722.7	722.6
177.5°	724.2	724.9	725.7	726.4	727.2	727.3	726.6	725.9	725.3	724.5	724.4
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5



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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°	13.1	12.9	13.3	13.1	12.3	14.7	16.1	16.4	15.6	14.7	13.9
90°	7.0	6.1	5.3	4.3	3.4	2.5	1.5	0.6	1.5	2.5	3.4
92.5°	7.2	6.4	5.7	5.6	6.3	7.0	7.6	8.3	7.6	7.0	6.3
95°	17.7	22.2	26.8	29.2	29.6	30.0	30.3	30.6	30.3	30.0	29.6
97.5°	44.4	53.4	62.4	66.5	65.9	65.3	64.7	64.0	64.7	65.3	65.9
100°	92.7	92.2	91.6	91.2	90.9	90.5	90.2	89.8	90.2	90.5	90.9
102.5°	118.9	118.5	118.2	117.8	117.4	117.0	116.5	116.0	116.5	117.0	117.4
105°	160.2	160.2	160.2	160.0	159.6	159.1	158.5	158.1	158.5	159.1	159.6
107.5°	202.4	202.1	201.9	201.8	201.8	201.8	201.8	201.8	201.8	201.8	201.8
110°	230.7	230.5	230.3	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2



TEST NUMBER: P333586-830

CATALOG NUMBER: S125RDIP-S1090D590U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	258.4	258.4	258.2	258.0	257.7	257.4	257.1	256.8	257.1	257.4	257.7
115°	299.8	299.7	299.6	299.3	298.6	298.0	297.5	296.8	297.5	298.0	298.6
117.5°	339.3	338.8	338.4	338.2	338.2	338.2	338.2	338.3	338.2	338.2	338.2
120°	364.4	364.1	363.7	363.5	363.7	363.8	363.9	364.1	363.9	363.8	363.7
122.5°	389.4	389.2	389.0	388.7	388.2	387.8	387.3	386.8	387.3	387.8	388.2
125°	425.9	425.9	425.9	425.5	424.6	423.8	423.0	422.2	423.0	423.8	424.6
127.5°	458.4	458.4	458.5	458.2	457.6	457.0	456.4	455.8	456.4	457.0	457.6
130°	479.5	479.3	479.2	478.8	478.2	477.7	477.0	476.5	477.0	477.7	478.2
132.5°	499.5	499.8	500.1	499.8	499.2	498.5	497.8	497.1	497.8	498.5	499.2
135°	529.0	529.3	529.6	529.3	528.6	527.9	527.2	526.5	527.2	527.9	528.6
137.5°	555.7	555.9	556.2	555.9	555.3	554.7	554.1	553.5	554.1	554.7	555.3
140°	571.8	572.0	572.1	572.0	571.8	571.6	571.4	571.1	571.4	571.6	571.8
142.5°	588.1	588.0	587.8	587.6	587.5	587.3	587.2	587.0	587.2	587.3	587.5
145°	611.4	611.4	611.4	611.3	611.1	610.9	610.6	610.4	610.6	610.9	611.1
147.5°	630.9	630.7	630.7	630.6	630.7	630.7	630.7	630.7	630.7	630.7	630.7
150°	643.2	643.0	642.7	642.7	643.0	643.2	643.5	643.7	643.5	643.2	643.0
152.5°	654.4	654.1	653.9	654.0	654.6	655.2	655.6	656.2	655.6	655.2	654.6
155°	669.6	669.3	669.1	669.3	670.1	670.8	671.5	672.2	671.5	670.8	670.1
157.5°	682.7	682.7	682.7	682.9	683.2	683.7	684.1	684.6	684.1	683.7	683.2
160°	690.2	690.1	690.0	690.3	691.0	691.7	692.5	693.1	692.5	691.7	691.0
162.5°	697.1	697.0	696.9	697.2	697.9	698.6	699.4	700.0	699.4	698.6	697.9
165°	706.3	706.2	706.2	706.4	707.2	707.8	708.6	709.3	708.6	707.8	707.2
167.5°	713.1	713.0	712.9	713.2	714.0	714.7	715.5	716.1	715.5	714.7	714.0
170°	716.6	716.4	716.3	716.7	717.6	718.4	719.3	720.1	719.3	718.4	717.6
172.5°	719.4	719.2	719.0	719.3	720.1	721.0	721.8	722.6	721.8	721.0	720.1
175°	722.6	722.4	722.3	722.6	723.3	724.0	724.7	725.5	724.7	724.0	723.3
177.5°	724.3	724.2	724.2	724.4	725.0	725.6	726.1	726.7	726.1	725.6	725.0
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5



TEST NUMBER: P333586-830

CATALOG NUMBER: S125RDIP-S1090D590U830-4F0-1E-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°	13.6	13.8	13.5	14.6	13.3	13.9	14.0	13.7	13.8	13.9	13.5
90°	4.3	5.3	6.1	7.0	7.7	8.6	9.2	9.8	10.4	11.0	11.5
92.5°	5.6	5.7	6.4	7.2	7.8	8.6	9.2	9.8	10.4	11.0	11.4
95°	29.2	26.8	22.2	17.7	13.1	8.6	9.2	9.8	10.4	11.0	11.3
97.5°	66.5	62.4	53.4	44.4	35.4	26.5	23.1	19.7	16.3	13.0	11.3
100°	91.2	91.6	92.2	92.7	93.1	93.6	75.8	58.0	40.2	22.3	13.2
102.5°	117.8	118.2	118.5	118.9	119.1	119.4	116.0	112.6	109.2	105.9	100.2
105°	160.0	160.2	160.2	160.2	160.2	160.2	160.2	160.2	160.2	160.2	160.2
107.5°	201.8	201.9	202.1	202.4	202.6	202.8	202.8	202.9	202.9	202.9	202.7
110°	230.2	230.3	230.5	230.7	231.0	231.2	230.9	230.5	230.2	229.8	229.7



TEST NUMBER: P333586-830

CATALOG NUMBER: S125RDIP-S1090D590U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	258.0	258.2	258.4	258.4	258.6	258.7	258.4	257.9	257.4	256.9	256.7
115°	299.3	299.6	299.7	299.8	299.9	300.1	299.6	299.1	298.6	298.1	297.6
117.5°	338.2	338.4	338.8	339.3	339.7	340.2	339.6	338.9	338.3	337.7	337.2
120°	363.5	363.7	364.1	364.4	364.8	365.1	364.9	364.7	364.4	364.2	363.7
122.5°	388.7	389.0	389.2	389.4	389.5	389.6	389.5	389.2	389.0	388.7	388.2
125°	425.5	425.9	425.9	425.9	425.9	425.9	425.5	425.0	424.4	424.0	423.6
127.5°	458.2	458.5	458.4	458.4	458.3	458.2	457.9	457.6	457.4	457.1	456.6
130°	478.8	479.2	479.3	479.5	479.6	479.7	479.3	479.0	478.6	478.2	477.8
132.5°	499.8	500.1	499.8	499.5	499.3	499.1	499.0	498.9	498.8	498.8	498.4
135°	529.3	529.6	529.3	529.0	528.9	528.6	528.4	528.1	527.9	527.6	527.2
137.5°	555.9	556.2	555.9	555.7	555.5	555.3	555.3	555.3	555.4	555.4	555.2
140°	572.0	572.1	572.0	571.8	571.7	571.7	571.8	572.1	572.3	572.6	572.3
142.5°	587.6	587.8	588.0	588.1	588.2	588.4	588.4	588.5	588.5	588.6	588.2
145°	611.3	611.4	611.4	611.4	611.4	611.4	611.5	611.7	611.8	611.9	611.6
147.5°	630.6	630.7	630.7	630.9	631.0	631.2	631.4	631.5	631.7	631.8	631.4
150°	642.7	642.7	643.0	643.2	643.5	643.7	643.9	644.1	644.4	644.6	644.3
152.5°	654.0	653.9	654.1	654.4	654.6	654.9	655.2	655.3	655.6	655.8	655.5
155°	669.3	669.1	669.3	669.6	669.8	670.1	670.4	670.8	671.1	671.5	671.2
157.5°	682.9	682.7	682.7	682.7	682.7	682.8	683.2	683.5	683.9	684.3	684.0
160°	690.3	690.0	690.1	690.2	690.3	690.5	691.0	691.4	691.9	692.4	692.1
162.5°	697.2	696.9	697.0	697.1	697.2	697.4	698.0	698.7	699.4	700.0	699.8
165°	706.4	706.2	706.2	706.3	706.5	706.6	707.3	708.0	708.8	709.5	709.4
167.5°	713.2	712.9	713.0	713.1	713.2	713.4	714.3	715.1	716.0	716.8	716.7
170°	716.7	716.3	716.4	716.6	716.7	716.8	717.7	718.8	719.7	720.7	720.6
172.5°	719.3	719.0	719.2	719.4	719.6	719.8	720.7	721.5	722.5	723.3	723.2
175°	722.6	722.3	722.4	722.6	722.6	722.7	723.7	724.6	725.6	726.6	726.5
177.5°	724.4	724.2	724.2	724.3	724.4	724.5	725.3	725.9	726.6	727.3	727.2
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5



TEST NUMBER: P333586-830

CATALOG NUMBER: S125RDIP-S1090D590U830-4F0-1E-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°	14.0	13.7	13.7	13.8	13.7	13.7	14.0	13.5	13.9	13.8	13.7
90°	11.9	12.2	12.5	12.9	12.5	12.2	11.9	11.5	11.0	10.4	9.8
92.5°	11.5	11.7	11.9	12.1	11.9	11.7	11.5	11.4	11.0	10.4	9.8
95°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.0	10.4	9.8
97.5°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	13.0	16.3	19.7
100°	12.7	12.3	11.8	11.3	11.8	12.3	12.7	13.2	22.3	40.2	58.0
102.5°	92.0	83.9	75.8	67.7	75.8	83.9	92.0	100.2	105.9	109.2	112.6
105°	160.0	159.9	159.9	159.7	159.9	159.9	160.0	160.2	160.2	160.2	160.2
107.5°	202.5	202.1	201.7	201.3	201.7	202.1	202.5	202.7	202.9	202.9	202.9
110°	229.8	229.9	230.1	230.2	230.1	229.9	229.8	229.7	229.8	230.2	230.5



TEST NUMBER: P333586-830

CATALOG NUMBER: S125RDIP-S1090D590U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	256.5	256.3	256.2	256.0	256.2	256.3	256.5	256.7	256.9	257.4	257.9
115°	296.8	296.1	295.4	294.7	295.4	296.1	296.8	297.6	298.1	298.6	299.1
117.5°	337.0	336.6	336.3	336.0	336.3	336.6	337.0	337.2	337.7	338.3	338.9
120°	363.2	362.6	361.9	361.4	361.9	362.6	363.2	363.7	364.2	364.4	364.7
122.5°	387.6	386.8	386.2	385.5	386.2	386.8	387.6	388.2	388.7	389.0	389.2
125°	423.2	422.8	422.5	422.2	422.5	422.8	423.2	423.6	424.0	424.4	425.0
127.5°	455.6	454.8	453.9	453.0	453.9	454.8	455.6	456.6	457.1	457.4	457.6
130°	477.2	476.5	476.0	475.4	476.0	476.5	477.2	477.8	478.2	478.6	479.0
132.5°	497.9	497.2	496.6	496.1	496.6	497.2	497.9	498.4	498.8	498.8	498.9
135°	526.5	525.8	525.0	524.3	525.0	525.8	526.5	527.2	527.6	527.9	528.1
137.5°	554.6	553.9	553.4	552.7	553.4	553.9	554.6	555.2	555.4	555.4	555.3
140°	571.7	570.9	570.2	569.5	570.2	570.9	571.7	572.3	572.6	572.3	572.1
142.5°	587.6	586.8	586.1	585.4	586.1	586.8	587.6	588.2	588.6	588.5	588.5
145°	610.9	610.2	609.4	608.7	609.4	610.2	610.9	611.6	611.9	611.8	611.7
147.5°	630.6	629.7	628.9	628.0	628.9	629.7	630.6	631.4	631.8	631.7	631.5
150°	643.4	642.3	641.4	640.5	641.4	642.3	643.4	644.3	644.6	644.4	644.1
152.5°	654.7	653.8	652.9	652.1	652.9	653.8	654.7	655.5	655.8	655.6	655.3
155°	670.2	669.3	668.4	667.3	668.4	669.3	670.2	671.2	671.5	671.1	670.8
157.5°	683.1	682.0	681.1	680.1	681.1	682.0	683.1	684.0	684.3	683.9	683.5
160°	691.2	690.2	689.3	688.3	689.3	690.2	691.2	692.1	692.4	691.9	691.4
162.5°	698.8	697.8	696.7	695.6	696.7	697.8	698.8	699.8	700.0	699.4	698.7
165°	708.4	707.5	706.5	705.5	706.5	707.5	708.4	709.4	709.5	708.8	708.0
167.5°	715.7	714.5	713.5	712.4	713.5	714.5	715.7	716.7	716.8	716.0	715.1
170°	719.5	718.4	717.4	716.3	717.4	718.4	719.5	720.6	720.7	719.7	718.8
172.5°	722.1	721.0	719.9	718.9	719.9	721.0	722.1	723.2	723.3	722.5	721.5
175°	725.5	724.3	723.3	722.2	723.3	724.3	725.5	726.5	726.6	725.6	724.6
177.5°	726.4	725.7	724.9	724.2	724.9	725.7	726.4	727.2	727.3	726.6	725.9
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5



TEST NUMBER: P333586-830

CATALOG NUMBER: S125RDIP-S1090D590U830-4F0-1E-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°	14.0	13.9	13.3	14.6	13.5	13.8	13.6	13.9	14.7	15.6	16.4
90°	9.2	8.6	7.7	7.0	6.1	5.3	4.3	3.4	2.5	1.5	0.6
92.5°	9.2	8.6	7.8	7.2	6.4	5.7	5.6	6.3	7.0	7.6	8.3
95°	9.2	8.6	13.1	17.7	22.2	26.8	29.2	29.6	30.0	30.3	30.6
97.5°	23.1	26.5	35.4	44.4	53.4	62.4	66.5	65.9	65.3	64.7	64.0
100°	75.8	93.6	93.1	92.7	92.2	91.6	91.2	90.9	90.5	90.2	89.8
102.5°	116.0	119.4	119.1	118.9	118.5	118.2	117.8	117.4	117.0	116.5	116.0
105°	160.2	160.2	160.2	160.2	160.2	160.2	160.0	159.6	159.1	158.5	158.1
107.5°	202.8	202.8	202.6	202.4	202.1	201.9	201.8	201.8	201.8	201.8	201.8
110°	230.9	231.2	231.0	230.7	230.5	230.3	230.2	230.2	230.2	230.2	230.2



TEST NUMBER: P333586-830

CATALOG NUMBER: S125RDIP-S1090D590U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	258.4	258.7	258.6	258.4	258.4	258.2	258.0	257.7	257.4	257.1	256.8
115°	299.6	300.1	299.9	299.8	299.7	299.6	299.3	298.6	298.0	297.5	296.8
117.5°	339.6	340.2	339.7	339.3	338.8	338.4	338.2	338.2	338.2	338.2	338.3
120°	364.9	365.1	364.8	364.4	364.1	363.7	363.5	363.7	363.8	363.9	364.1
122.5°	389.5	389.6	389.5	389.4	389.2	389.0	388.7	388.2	387.8	387.3	386.8
125°	425.5	425.9	425.9	425.9	425.9	425.9	425.5	424.6	423.8	423.0	422.2
127.5°	457.9	458.2	458.3	458.4	458.4	458.5	458.2	457.6	457.0	456.4	455.8
130°	479.3	479.7	479.6	479.5	479.3	479.2	478.8	478.2	477.7	477.0	476.5
132.5°	499.0	499.1	499.3	499.5	499.8	500.1	499.8	499.2	498.5	497.8	497.1
135°	528.4	528.6	528.9	529.0	529.3	529.6	529.3	528.6	527.9	527.2	526.5
137.5°	555.3	555.3	555.5	555.7	555.9	556.2	555.9	555.3	554.7	554.1	553.5
140°	571.8	571.7	571.7	571.8	572.0	572.1	572.0	571.8	571.6	571.4	571.1
142.5°	588.4	588.4	588.2	588.1	588.0	587.8	587.6	587.5	587.3	587.2	587.0
145°	611.5	611.4	611.4	611.4	611.4	611.4	611.3	611.1	610.9	610.6	610.4
147.5°	631.4	631.2	631.0	630.9	630.7	630.7	630.6	630.7	630.7	630.7	630.7
150°	643.9	643.7	643.5	643.2	643.0	642.7	642.7	643.0	643.2	643.5	643.7
152.5°	655.2	654.9	654.6	654.4	654.1	653.9	654.0	654.6	655.2	655.6	656.2
155°	670.4	670.1	669.8	669.6	669.3	669.1	669.3	670.1	670.8	671.5	672.2
157.5°	683.2	682.8	682.7	682.7	682.7	682.7	682.9	683.2	683.7	684.1	684.6
160°	691.0	690.5	690.3	690.2	690.1	690.0	690.3	691.0	691.7	692.5	693.1
162.5°	698.0	697.4	697.2	697.1	697.0	696.9	697.2	697.9	698.6	699.4	700.0
165°	707.3	706.6	706.5	706.3	706.2	706.2	706.4	707.2	707.8	708.6	709.3
167.5°	714.3	713.4	713.2	713.1	713.0	712.9	713.2	714.0	714.7	715.5	716.1
170°	717.7	716.8	716.7	716.6	716.4	716.3	716.7	717.6	718.4	719.3	720.1
172.5°	720.7	719.8	719.6	719.4	719.2	719.0	719.3	720.1	721.0	721.8	722.6
175°	723.7	722.7	722.6	722.6	722.4	722.3	722.6	723.3	724.0	724.7	725.5
177.5°	725.3	724.5	724.4	724.3	724.2	724.2	724.4	725.0	725.6	726.1	726.7
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5



TEST NUMBER: P333586-830

CATALOG NUMBER: S125RDIP-S1090D590U830-4F0-1E-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°	16.1	14.7	12.3	13.1	13.3	12.9	13.1	12.7	12.4	12.5	12.6
90°	1.5	2.5	3.4	4.3	5.3	6.1	7.0	7.7	8.6	9.2	9.8
92.5°	7.6	7.0	6.3	5.6	5.7	6.4	7.2	7.8	8.6	9.2	9.8
95°	30.3	30.0	29.6	29.2	26.8	22.2	17.7	13.1	8.6	9.2	9.8
97.5°	64.7	65.3	65.9	66.5	62.4	53.4	44.4	35.4	26.5	23.1	19.7
100°	90.2	90.5	90.9	91.2	91.6	92.2	92.7	93.1	93.6	75.8	58.0
102.5°	116.5	117.0	117.4	117.8	118.2	118.5	118.9	119.1	119.4	116.0	112.6
105°	158.5	159.1	159.6	160.0	160.2	160.2	160.2	160.2	160.2	160.2	160.2
107.5°	201.8	201.8	201.8	201.8	201.9	202.1	202.4	202.6	202.8	202.8	202.9
110°	230.2	230.2	230.2	230.2	230.3	230.5	230.7	231.0	231.2	230.9	230.5



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	257.1	257.4	257.7	258.0	258.2	258.4	258.4	258.6	258.7	258.4	257.9
115°	297.5	298.0	298.6	299.3	299.6	299.7	299.8	299.9	300.1	299.6	299.1
117.5°	338.2	338.2	338.2	338.2	338.4	338.8	339.3	339.7	340.2	339.6	338.9
120°	363.9	363.8	363.7	363.5	363.7	364.1	364.4	364.8	365.1	364.9	364.7
122.5°	387.3	387.8	388.2	388.7	389.0	389.2	389.4	389.5	389.6	389.5	389.2
125°	423.0	423.8	424.6	425.5	425.9	425.9	425.9	425.9	425.9	425.5	425.0
127.5°	456.4	457.0	457.6	458.2	458.5	458.4	458.4	458.3	458.2	457.9	457.6
130°	477.0	477.7	478.2	478.8	479.2	479.3	479.5	479.6	479.7	479.3	479.0
132.5°	497.8	498.5	499.2	499.8	500.1	499.8	499.5	499.3	499.1	499.0	498.9
135°	527.2	527.9	528.6	529.3	529.6	529.3	529.0	528.9	528.6	528.4	528.1
137.5°	554.1	554.7	555.3	555.9	556.2	555.9	555.7	555.5	555.3	555.3	555.3
140°	571.4	571.6	571.8	572.0	572.1	572.0	571.8	571.7	571.7	571.8	572.1
142.5°	587.2	587.3	587.5	587.6	587.8	588.0	588.1	588.2	588.4	588.4	588.5
145°	610.6	610.9	611.1	611.3	611.4	611.4	611.4	611.4	611.4	611.5	611.7
147.5°	630.7	630.7	630.7	630.6	630.7	630.7	630.9	631.0	631.2	631.4	631.5
150°	643.5	643.2	643.0	642.7	642.7	643.0	643.2	643.5	643.7	643.9	644.1
152.5°	655.6	655.2	654.6	654.0	653.9	654.1	654.4	654.6	654.9	655.2	655.3
155°	671.5	670.8	670.1	669.3	669.1	669.3	669.6	669.8	670.1	670.4	670.8
157.5°	684.1	683.7	683.2	682.9	682.7	682.7	682.7	682.7	682.8	683.2	683.5
160°	692.5	691.7	691.0	690.3	690.0	690.1	690.2	690.3	690.5	691.0	691.4
162.5°	699.4	698.6	697.9	697.2	696.9	697.0	697.1	697.2	697.4	698.0	698.7
165°	708.6	707.8	707.2	706.4	706.2	706.2	706.3	706.5	706.6	707.3	708.0
167.5°	715.5	714.7	714.0	713.2	712.9	713.0	713.1	713.2	713.4	714.3	715.1
170°	719.3	718.4	717.6	716.7	716.3	716.4	716.6	716.7	716.8	717.7	718.8
172.5°	721.8	721.0	720.1	719.3	719.0	719.2	719.4	719.6	719.8	720.7	721.5
175°	724.7	724.0	723.3	722.6	722.3	722.4	722.6	722.6	722.7	723.7	724.6
177.5°	726.1	725.6	725.0	724.4	724.2	724.2	724.3	724.4	724.5	725.3	725.9
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5	725.5



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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°	13.3	13.9	13.0	12.5	12.6	13.2	13.8
90°	10.4	11.0	11.5	11.9	12.2	12.5	12.9
92.5°	10.4	11.0	11.4	11.5	11.7	11.9	12.1
95°	10.4	11.0	11.3	11.3	11.3	11.3	11.3
97.5°	16.3	13.0	11.3	11.3	11.3	11.3	11.3
100°	40.2	22.3	13.2	12.7	12.3	11.8	11.3
102.5°	109.2	105.9	100.2	92.0	83.9	75.8	67.7
105°	160.2	160.2	160.2	160.0	159.9	159.9	159.7
107.5°	202.9	202.9	202.7	202.5	202.1	201.7	201.3
110°	230.2	229.8	229.7	229.8	229.9	230.1	230.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	257.4	256.9	256.7	256.5	256.3	256.2	256.0
115°	298.6	298.1	297.6	296.8	296.1	295.4	294.7
117.5°	338.3	337.7	337.2	337.0	336.6	336.3	336.0
120°	364.4	364.2	363.7	363.2	362.6	361.9	361.4
122.5°	389.0	388.7	388.2	387.6	386.8	386.2	385.5
125°	424.4	424.0	423.6	423.2	422.8	422.5	422.2
127.5°	457.4	457.1	456.6	455.6	454.8	453.9	453.0
130°	478.6	478.2	477.8	477.2	476.5	476.0	475.4
132.5°	498.8	498.8	498.4	497.9	497.2	496.6	496.1
135°	527.9	527.6	527.2	526.5	525.8	525.0	524.3
137.5°	555.4	555.4	555.2	554.6	553.9	553.4	552.7
140°	572.3	572.6	572.3	571.7	570.9	570.2	569.5
142.5°	588.5	588.6	588.2	587.6	586.8	586.1	585.4
145°	611.8	611.9	611.6	610.9	610.2	609.4	608.7
147.5°	631.7	631.8	631.4	630.6	629.7	628.9	628.0
150°	644.4	644.6	644.3	643.4	642.3	641.4	640.5
152.5°	655.6	655.8	655.5	654.7	653.8	652.9	652.1
155°	671.1	671.5	671.2	670.2	669.3	668.4	667.3
157.5°	683.9	684.3	684.0	683.1	682.0	681.1	680.1
160°	691.9	692.4	692.1	691.2	690.2	689.3	688.3
162.5°	699.4	700.0	699.8	698.8	697.8	696.7	695.6
165°	708.8	709.5	709.4	708.4	707.5	706.5	705.5
167.5°	716.0	716.8	716.7	715.7	714.5	713.5	712.4
170°	719.7	720.7	720.6	719.5	718.4	717.4	716.3
172.5°	722.5	723.3	723.2	722.1	721.0	719.9	718.9
175°	725.6	726.6	726.5	725.5	724.3	723.3	722.2
177.5°	726.6	727.3	727.2	726.4	725.7	724.9	724.2
180°	725.5	725.5	725.5	725.5	725.5	725.5	725.5

(END OF REPORT)