

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: P333586-927

Luminaire Tested: **S125RDIP-S1090D590U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333586-927
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-S1090D590U927-4F0-1E-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: 5248.1 lumens
Efficiency: N/A
Efficacy: 107.5 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

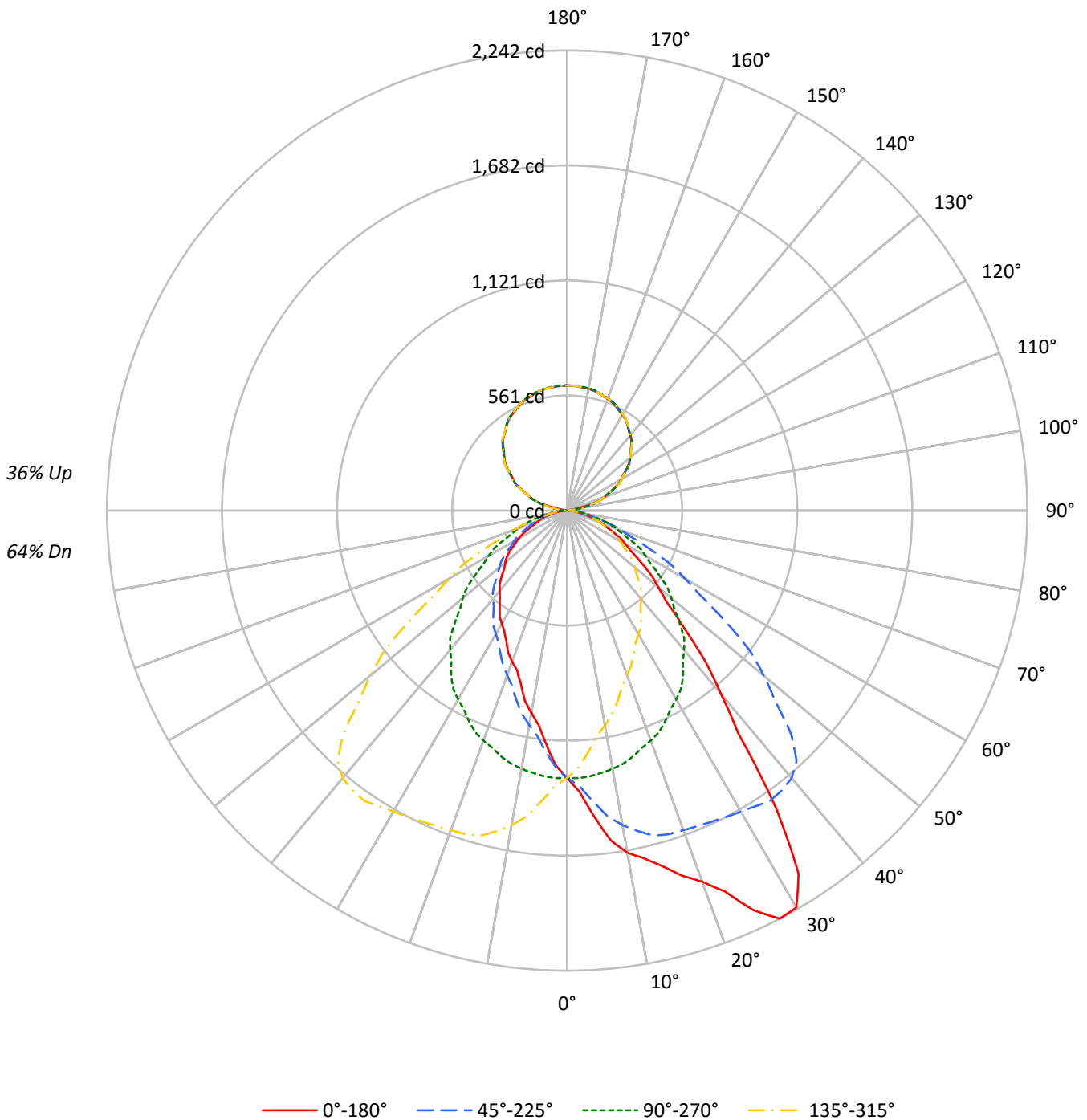
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	8412	8412	8412	8412
5°	9678	8423	7439	8423
10°	11101	8380	6564	8380
15°	11990	8294	5834	8294
20°	13221	8194	5388	8194
25°	15302	8062	4999	8062
30°	16651	7923	4745	7923
35°	14046	7761	4511	7761
40°	9809	7470	4309	7470
45°	7277	7077	4112	7077
50°	5801	6666	3943	6666
55°	4925	6159	3792	6159
60°	4255	5704	3550	5704
65°	3791	5213	3055	5213
70°	3331	4775	2787	4775
75°	2882	4135	2615	4135
80°	2187	3481	2187	3481
85°	1823	2734	2060	2734



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	2.4
10°-20°	366.0	7.0
20°-30°	580.4	11.1
30°-40°	699.9	13.3
40°-50°	625.0	11.9
50°-60°	479.3	9.1
60°-70°	311.5	5.9
70°-80°	151.4	2.9
80°-90°	37.4	0.7
90°-100°	22.2	0.4
100°-110°	136.6	2.6
110°-120°	247.7	4.7
120°-130°	317.8	6.1
130°-140°	341.9	6.5
140°-150°	320.9	6.1
150°-160°	259.6	4.9
160°-170°	167.9	3.2
170°-180°	57.9	1.1
0°-30°	1071.3	20.4
0°-40°	1771.2	33.7
0°-60°	2875.5	54.8
0°-90°	3375.8	64.3
90°-120°	406.4	7.7
90°-150°	1387.0	26.4
90°-180°	1872.0	35.7
0°-180°	5248.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1302	1302	1302	1302	1302	
5°	1493	1299	1147	1299	1493	149
15°	1793	1240	873	1240	1793	514
25°	2147	1131	702	1131	2147	986
35°	1782	984	572	984	1782	1076
45°	797	775	450	775	797	636
55°	437	547	337	547	437	397
65°	248	341	200	341	248	247
75°	116	166	105	166	116	123
85°	25	37	28	37	25	29
90°	11	0	11	0	11	6
95°	10	26	10	26	10	8
105°	134	133	134	133	134	121
115°	248	250	248	250	248	246
125°	355	355	355	355	355	316
135°	441	442	441	442	441	340
145°	512	513	512	513	512	320
155°	561	565	561	565	561	258
165°	593	596	593	596	593	167
175°	607	610	607	610	607	58
180°	610	610	610	610	610	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1370.1	1369.2	1371.0	1366.2	1366.7	1359.4	1359.4	1353.8	1346.6	1341.0	1338.4
5°	1492.8	1493.9	1491.8	1483.8	1478.4	1470.4	1461.3	1445.3	1431.9	1419.0	1408.9
7.5°	1619.2	1619.9	1612.9	1610.4	1597.0	1587.1	1566.9	1545.1	1525.7	1501.2	1482.3
10°	1692.8	1692.3	1684.7	1678.9	1667.1	1652.2	1632.4	1606.7	1582.6	1555.9	1530.3
12.5°	1735.6	1734.2	1731.8	1724.7	1713.7	1700.5	1683.7	1658.4	1628.8	1599.6	1569.6
15°	1793.3	1789.5	1782.6	1773.5	1758.0	1742.5	1723.8	1701.4	1673.0	1639.8	1612.1
17.5°	1864.7	1864.9	1854.2	1841.5	1820.4	1793.1	1764.2	1728.0	1689.5	1653.0	1623.4
20°	1923.7	1922.2	1911.5	1886.9	1862.8	1828.6	1795.5	1751.0	1704.0	1656.5	1619.5
22.5°	2008.5	2004.3	1993.1	1960.9	1923.6	1879.5	1828.8	1774.6	1717.7	1663.7	1615.3
25°	2147.3	2144.0	2122.1	2084.7	2032.3	1964.4	1898.1	1823.8	1742.0	1670.9	1612.1
27.5°	2242.2	2238.7	2222.5	2191.3	2143.0	2071.6	1981.8	1882.5	1780.4	1682.5	1597.8
30°	2232.8	2240.8	2238.7	2224.3	2187.9	2123.8	2040.9	1929.1	1807.8	1692.8	1591.7
32.5°	2098.5	2105.7	2124.5	2152.8	2155.0	2129.3	2067.4	1964.2	1838.6	1707.8	1587.1
35°	1781.5	1791.2	1827.6	1884.8	1959.6	2022.1	2035.0	1979.3	1866.5	1725.9	1580.0
37.5°	1369.6	1422.2	1452.9	1513.1	1626.2	1741.2	1851.9	1892.7	1844.6	1718.5	1568.5
40°	1163.5	1176.3	1230.8	1298.7	1393.9	1513.7	1671.4	1785.3	1789.1	1701.4	1550.5
42.5°	995.8	1012.0	1049.5	1103.7	1185.2	1305.0	1467.8	1618.0	1687.7	1654.3	1527.0
45°	796.7	809.0	836.2	878.0	940.5	1039.4	1179.5	1353.3	1491.2	1545.2	1464.0
47.5°	654.4	661.1	684.8	716.6	762.9	835.0	943.4	1094.2	1259.7	1375.7	1364.3
50°	577.4	584.9	603.1	627.2	666.2	727.1	813.8	939.4	1110.0	1251.6	1280.0
52.5°	517.5	523.8	535.1	557.9	590.1	636.9	706.9	820.5	974.0	1124.7	1190.2
55°	437.4	441.6	450.8	463.6	489.3	522.9	583.4	661.9	786.0	937.8	1034.0
57.5°	371.3	373.4	379.2	391.1	408.8	433.4	477.1	543.7	632.6	769.4	875.6
60°	329.4	331.5	339.0	347.0	360.9	383.3	417.6	464.1	549.6	662.5	769.9
62.5°	296.0	297.3	300.5	308.5	320.7	338.0	365.0	402.9	471.0	570.1	671.5
65°	248.1	248.6	249.7	256.1	263.6	276.4	294.1	320.8	372.2	447.0	536.8
67.5°	202.1	202.9	206.6	208.8	216.7	223.4	233.8	254.2	290.3	340.8	410.7
70°	176.4	175.9	179.7	182.4	185.0	193.1	199.9	216.6	239.0	277.5	335.8
72.5°	152.5	151.1	152.7	153.7	157.2	162.6	169.6	179.7	197.1	223.6	268.2
75°	115.5	116.1	116.1	117.1	119.8	121.9	124.1	129.4	139.0	156.7	180.7
77.5°	81.0	80.2	82.5	82.8	84.4	86.7	88.6	90.7	94.7	101.9	114.3
80°	58.8	58.8	59.3	60.9	60.4	61.5	64.2	66.3	71.1	75.4	79.7
82.5°	45.2	44.7	45.2	45.6	45.5	46.5	47.5	47.9	49.7	51.9	54.8
85°	24.6	24.6	25.1	25.1	25.7	25.7	26.2	26.2	26.2	26.7	27.3
87.5°	11.6	11.1	10.6	10.5	10.9	11.7	11.2	10.6	10.5	10.5	10.7
90°	10.9	10.5	10.2	10.0	9.7	9.3	8.7	8.2	7.8	7.2	6.5
92.5°	10.1	10.0	9.8	9.7	9.6	9.3	8.7	8.2	7.8	7.2	6.6
95°	9.5	9.5	9.5	9.5	9.5	9.3	8.7	8.2	7.8	7.2	11.0
97.5°	9.5	9.5	9.5	9.5	9.5	10.9	13.7	16.6	19.4	22.3	29.8
100°	9.5	9.9	10.3	10.7	11.1	18.8	33.7	48.7	63.7	78.7	78.3
102.5°	56.9	63.7	70.5	77.3	84.2	89.0	91.8	94.7	97.5	100.4	100.1
105°	134.2	134.4	134.4	134.5	134.7	134.7	134.7	134.7	134.7	134.7	134.7
107.5°	169.2	169.5	169.8	170.2	170.4	170.6	170.6	170.6	170.5	170.5	170.3
110°	193.5	193.4	193.2	193.1	193.1	193.1	193.5	193.8	194.1	194.3	194.2



TEST NUMBER: P333586-927

CATALOG NUMBER: S125RDIP-S1090D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	215.2	215.3	215.4	215.6	215.7	215.9	216.3	216.7	217.1	217.5	217.4
115°	247.7	248.3	248.9	249.5	250.1	250.6	251.0	251.4	251.8	252.2	252.1
117.5°	282.4	282.7	282.9	283.2	283.4	283.8	284.3	284.9	285.4	285.9	285.5
120°	303.7	304.2	304.8	305.2	305.7	306.1	306.3	306.5	306.7	306.9	306.6
122.5°	324.0	324.6	325.1	325.7	326.3	326.7	326.9	327.1	327.3	327.5	327.3
125°	354.8	355.1	355.4	355.7	356.0	356.3	356.7	357.2	357.6	358.0	358.0
127.5°	380.7	381.5	382.2	382.9	383.7	384.2	384.4	384.6	384.8	385.1	385.2
130°	399.6	400.1	400.5	401.1	401.6	402.0	402.3	402.6	402.8	403.1	403.1
132.5°	416.9	417.4	417.9	418.4	418.9	419.2	419.2	419.3	419.4	419.5	419.6
135°	440.7	441.2	441.9	442.5	443.1	443.5	443.7	443.9	444.1	444.3	444.5
137.5°	464.5	465.1	465.6	466.1	466.6	466.8	466.8	466.8	466.8	466.7	466.9
140°	478.6	479.3	479.8	480.5	481.0	481.3	481.0	480.9	480.6	480.5	480.5
142.5°	492.0	492.6	493.2	493.8	494.4	494.7	494.6	494.6	494.6	494.6	494.4
145°	511.6	512.2	512.9	513.4	514.0	514.3	514.2	514.1	514.0	513.9	513.9
147.5°	527.8	528.5	529.3	530.0	530.7	531.0	530.9	530.8	530.7	530.5	530.4
150°	538.3	539.1	539.9	540.7	541.5	541.8	541.6	541.4	541.2	541.0	540.8
152.5°	548.0	548.7	549.5	550.2	551.0	551.2	551.0	550.8	550.6	550.4	550.2
155°	560.9	561.7	562.5	563.3	564.1	564.4	564.0	563.8	563.5	563.2	562.9
157.5°	571.6	572.4	573.2	574.1	574.9	575.1	574.8	574.5	574.2	573.9	573.8
160°	578.5	579.3	580.1	580.9	581.7	581.9	581.5	581.1	580.7	580.4	580.2
162.5°	584.6	585.6	586.5	587.3	588.2	588.4	587.8	587.2	586.7	586.1	586.0
165°	592.9	593.8	594.6	595.4	596.2	596.3	595.7	595.1	594.5	593.9	593.8
167.5°	598.7	599.7	600.6	601.5	602.4	602.5	601.7	601.0	600.3	599.6	599.4
170°	602.1	602.9	603.8	604.8	605.6	605.7	604.9	604.1	603.2	602.5	602.4
172.5°	604.2	605.1	606.0	606.9	607.8	607.9	607.2	606.4	605.7	605.0	604.8
175°	607.0	607.9	608.8	609.7	610.6	610.7	609.8	609.0	608.2	607.4	607.4
177.5°	608.6	609.3	609.9	610.5	611.2	611.2	610.7	610.1	609.6	609.0	608.9
180°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7



TEST NUMBER: P333586-927

CATALOG NUMBER: S125RDIP-S1090D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1338.4	1335.4	1329.8	1324.7	1318.3	1312.7	1308.9	1304.2	1298.2	1290.9	1284.9
5°	1397.6	1385.8	1370.4	1357.0	1339.9	1326.5	1312.6	1299.3	1285.9	1268.8	1253.8
7.5°	1463.3	1439.0	1415.4	1385.7	1358.8	1334.7	1311.5	1288.2	1265.3	1241.0	1217.6
10°	1503.5	1474.1	1441.5	1404.1	1369.8	1337.2	1307.3	1277.9	1246.9	1219.6	1190.2
12.5°	1541.2	1503.2	1465.9	1418.6	1377.5	1337.7	1299.6	1262.9	1229.8	1194.4	1162.8
15°	1575.2	1537.7	1496.0	1438.3	1381.1	1332.9	1288.0	1240.5	1199.3	1159.7	1124.4
17.5°	1588.3	1549.0	1500.6	1445.1	1382.6	1322.1	1264.2	1212.0	1163.6	1117.5	1077.8
20°	1583.2	1545.2	1495.5	1442.6	1375.7	1312.6	1250.1	1192.3	1138.4	1089.6	1047.4
22.5°	1570.7	1531.5	1483.5	1427.6	1364.1	1297.2	1230.4	1168.8	1112.2	1061.8	1015.8
25°	1552.2	1498.7	1449.5	1395.0	1334.6	1268.3	1199.3	1131.4	1071.0	1019.6	969.4
27.5°	1532.8	1466.1	1403.5	1349.3	1285.5	1226.3	1159.8	1090.2	1026.7	974.4	922.8
30°	1515.3	1440.4	1371.4	1310.0	1249.5	1193.4	1130.3	1062.4	997.2	943.2	890.8
32.5°	1493.4	1413.9	1338.1	1267.2	1208.9	1153.2	1096.1	1031.2	967.7	912.0	858.7
35°	1466.1	1364.5	1282.1	1206.7	1142.1	1088.1	1036.7	984.4	920.8	863.0	811.1
37.5°	1430.1	1314.9	1219.6	1137.5	1069.2	1015.0	974.5	926.6	868.5	813.3	765.1
40°	1408.3	1279.0	1174.6	1093.4	1021.8	964.6	926.6	886.0	833.1	781.2	733.0
42.5°	1379.3	1246.0	1129.3	1044.7	972.6	917.5	879.1	843.6	799.2	750.4	698.8
45°	1322.2	1182.2	1059.7	968.8	896.1	842.1	806.3	774.8	741.1	696.2	651.3
47.5°	1248.0	1115.6	987.5	888.2	817.0	766.8	732.1	707.2	683.1	644.9	601.3
50°	1188.6	1060.8	935.6	839.5	763.5	715.9	683.3	663.5	641.6	606.9	570.5
52.5°	1118.4	1004.3	881.8	783.4	711.8	667.2	635.8	616.1	598.0	569.7	535.0
55°	1007.9	907.9	795.6	706.3	640.6	595.6	565.7	547.0	536.3	512.2	485.0
57.5°	880.3	808.7	709.6	623.5	565.4	521.0	499.1	483.2	471.0	454.1	434.8
60°	791.3	741.1	652.3	570.5	517.1	474.8	455.0	441.6	430.4	416.0	401.0
62.5°	701.1	664.5	587.3	517.1	467.9	432.5	413.9	401.9	389.0	379.2	364.6
65°	580.1	547.5	494.0	438.9	393.6	365.2	351.8	341.1	333.1	322.4	312.3
67.5°	451.3	438.0	401.1	363.1	330.5	305.3	293.7	286.3	276.6	270.2	263.2
70°	372.2	365.8	339.5	314.4	283.9	266.8	256.1	252.9	241.1	234.7	229.9
72.5°	302.0	299.0	283.9	266.5	245.0	230.0	220.1	216.6	209.1	203.9	200.8
75°	206.9	208.0	205.3	194.1	186.1	176.4	167.9	165.7	160.4	156.1	153.4
77.5°	130.9	136.3	136.6	136.0	132.8	126.9	123.4	121.8	116.5	114.9	114.3
80°	89.8	95.7	101.1	100.5	99.4	97.8	95.1	93.6	90.9	89.3	88.2
82.5°	59.9	65.4	69.8	72.7	72.5	70.9	69.1	68.4	67.8	66.6	66.4
85°	28.4	29.4	31.0	34.8	37.4	37.9	37.4	36.9	35.3	35.8	36.4
87.5°	11.0	10.9	11.2	11.0	10.4	12.4	13.5	13.8	13.1	12.4	11.7
90°	5.9	5.1	4.4	3.6	2.9	2.1	1.3	0.5	1.3	2.1	2.9
92.5°	6.0	5.4	4.8	4.7	5.3	5.9	6.4	7.0	6.4	5.9	5.3
95°	14.9	18.7	22.5	24.6	24.9	25.2	25.4	25.7	25.4	25.2	24.9
97.5°	37.3	44.9	52.4	55.9	55.4	54.9	54.3	53.8	54.3	54.9	55.4
100°	77.9	77.5	77.0	76.7	76.4	76.0	75.8	75.5	75.8	76.0	76.4
102.5°	99.9	99.6	99.3	99.0	98.7	98.3	97.9	97.5	97.9	98.3	98.7
105°	134.7	134.7	134.7	134.5	134.1	133.7	133.2	132.8	133.2	133.7	134.1
107.5°	170.1	169.8	169.7	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6
110°	193.9	193.8	193.5	193.5	193.5	193.5	193.5	193.5	193.5	193.5	193.5



TEST NUMBER: P333586-927

CATALOG NUMBER: S125RDIP-S1090D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	217.2	217.1	217.0	216.8	216.6	216.3	216.1	215.9	216.1	216.3	216.6
115°	252.0	251.9	251.8	251.5	251.0	250.5	250.0	249.5	250.0	250.5	251.0
117.5°	285.2	284.8	284.4	284.2	284.2	284.2	284.2	284.3	284.2	284.2	284.2
120°	306.3	306.0	305.7	305.5	305.7	305.8	305.9	306.0	305.9	305.8	305.7
122.5°	327.3	327.1	326.9	326.7	326.3	325.9	325.5	325.1	325.5	325.9	326.3
125°	358.0	358.0	358.0	357.6	356.9	356.2	355.5	354.8	355.5	356.2	356.9
127.5°	385.2	385.2	385.3	385.1	384.6	384.1	383.6	383.1	383.6	384.1	384.6
130°	403.0	402.8	402.7	402.4	402.0	401.5	400.9	400.4	400.9	401.5	402.0
132.5°	419.9	420.1	420.3	420.1	419.5	419.0	418.4	417.8	418.4	419.0	419.5
135°	444.7	444.9	445.1	444.9	444.3	443.7	443.1	442.5	443.1	443.7	444.3
137.5°	467.1	467.2	467.5	467.2	466.8	466.2	465.7	465.2	465.7	466.2	466.8
140°	480.6	480.8	480.9	480.8	480.6	480.4	480.2	480.0	480.2	480.4	480.6
142.5°	494.2	494.2	494.0	493.8	493.8	493.6	493.5	493.4	493.5	493.6	493.8
145°	513.9	513.9	513.9	513.8	513.6	513.4	513.2	513.0	513.2	513.4	513.6
147.5°	530.3	530.1	530.0	530.0	530.0	530.0	530.1	530.1	530.1	530.0	530.0
150°	540.6	540.4	540.2	540.2	540.4	540.6	540.8	541.0	540.8	540.6	540.4
152.5°	550.0	549.8	549.6	549.7	550.2	550.6	551.0	551.5	551.0	550.6	550.2
155°	562.8	562.5	562.4	562.5	563.2	563.8	564.4	565.0	564.4	563.8	563.2
157.5°	573.8	573.8	573.8	573.9	574.3	574.6	575.0	575.4	575.0	574.6	574.3
160°	580.1	580.0	580.0	580.2	580.7	581.4	582.0	582.6	582.0	581.4	580.7
162.5°	585.9	585.8	585.7	586.0	586.5	587.2	587.8	588.4	587.8	587.2	586.5
165°	593.7	593.6	593.5	593.7	594.4	594.9	595.6	596.1	595.6	594.9	594.4
167.5°	599.4	599.3	599.2	599.4	600.1	600.7	601.3	601.9	601.3	600.7	600.1
170°	602.3	602.1	602.1	602.4	603.1	603.8	604.5	605.2	604.5	603.8	603.1
172.5°	604.7	604.4	604.3	604.5	605.2	605.9	606.7	607.4	606.7	605.9	605.2
175°	607.3	607.1	607.0	607.3	607.9	608.5	609.1	609.7	609.1	608.5	607.9
177.5°	608.8	608.7	608.6	608.9	609.3	609.8	610.3	610.8	610.3	609.8	609.3
180°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7



TEST NUMBER: P333586-927

CATALOG NUMBER: S125RDIP-S1090D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1280.6	1274.7	1270.4	1261.9	1255.8	1253.3	1248.6	1247.3	1252.0	1248.6	1248.2
5°	1242.6	1227.1	1214.8	1202.5	1189.1	1180.6	1167.8	1165.6	1162.4	1157.5	1156.5
7.5°	1196.9	1176.7	1160.9	1140.6	1122.9	1108.7	1092.7	1085.1	1080.9	1074.7	1066.4
10°	1166.1	1142.1	1120.7	1100.3	1078.5	1060.8	1044.7	1032.5	1024.5	1016.9	1013.8
12.5°	1135.8	1111.3	1083.9	1059.3	1034.8	1015.0	997.3	989.3	980.4	971.6	964.2
15°	1088.6	1056.0	1026.0	997.7	976.8	955.5	938.3	926.6	913.2	909.5	895.1
17.5°	1038.6	1006.5	971.5	941.7	917.5	894.0	875.1	861.8	851.8	838.0	831.3
20°	1007.3	969.4	935.2	907.9	881.1	853.3	834.1	822.8	813.3	802.0	796.7
22.5°	974.0	936.8	901.8	869.8	842.6	815.3	801.6	790.0	779.0	768.7	761.6
25°	925.0	887.6	850.6	817.5	789.2	769.4	753.4	740.0	734.1	724.0	716.4
27.5°	876.5	836.8	798.5	765.4	743.2	723.7	710.5	699.9	689.3	680.4	673.9
30°	845.3	804.7	763.0	736.8	713.3	694.5	680.1	669.9	661.9	653.9	649.1
32.5°	814.1	772.2	735.1	706.9	684.6	668.4	653.6	643.9	635.4	626.5	620.8
35°	764.1	721.3	691.3	663.5	641.6	626.6	616.5	602.6	595.6	589.2	583.4
37.5°	717.6	677.8	645.4	621.0	601.9	587.1	573.9	566.4	557.9	552.1	547.2
40°	683.3	647.0	617.6	591.9	578.0	561.4	549.1	539.5	533.1	525.6	520.2
42.5°	652.5	618.7	590.2	567.0	549.8	535.8	523.9	514.3	506.1	500.8	496.3
45°	609.0	575.3	547.5	526.1	510.1	496.7	484.4	479.6	468.9	462.5	460.3
47.5°	564.0	533.9	507.0	487.3	470.9	458.2	446.6	436.8	430.9	424.6	421.2
50°	533.6	504.7	479.6	460.3	444.3	430.4	419.7	413.3	405.3	399.4	395.1
52.5°	503.3	476.5	451.4	433.0	419.1	405.2	393.2	386.8	379.2	375.4	372.5
55°	459.9	431.5	410.1	391.9	377.5	364.6	353.4	347.0	342.2	338.4	337.4
57.5°	410.7	388.2	368.3	351.9	336.9	324.9	315.1	309.0	304.7	304.1	301.0
60°	378.6	358.2	340.1	322.4	309.6	298.3	289.8	282.8	278.5	278.1	276.9
62.5°	346.5	327.0	310.1	294.6	283.0	272.3	264.1	256.4	253.7	251.1	248.7
65°	298.9	281.2	267.4	255.0	242.7	233.6	225.6	220.9	214.9	211.8	205.9
67.5°	252.2	238.4	225.1	214.8	205.1	196.5	189.8	182.7	178.7	176.1	171.8
70°	221.3	210.6	197.3	186.1	178.6	171.7	166.3	158.3	155.6	153.4	151.3
72.5°	192.3	182.8	171.7	162.6	155.0	148.5	142.4	138.6	135.9	133.8	132.5
75°	151.3	142.2	132.6	126.2	120.8	115.5	112.3	109.6	108.5	108.0	105.8
77.5°	111.1	106.3	98.6	93.5	89.9	87.8	84.9	83.5	83.4	81.0	80.3
80°	85.0	82.3	75.9	73.8	71.1	69.0	67.3	64.7	62.0	60.9	59.3
82.5°	63.2	60.5	58.0	54.5	52.3	51.0	49.4	48.4	48.8	47.3	46.5
85°	33.7	31.0	29.9	29.4	28.4	29.4	28.8	28.4	27.8	27.3	27.8
87.5°	11.4	11.6	11.3	12.3	11.2	11.7	11.8	11.5	11.6	11.7	11.3
90°	3.6	4.4	5.1	5.9	6.5	7.2	7.8	8.2	8.7	9.3	9.7
92.5°	4.7	4.8	5.4	6.0	6.6	7.2	7.8	8.2	8.7	9.3	9.6
95°	24.6	22.5	18.7	14.9	11.0	7.2	7.8	8.2	8.7	9.3	9.5
97.5°	55.9	52.4	44.9	37.3	29.8	22.3	19.4	16.6	13.7	10.9	9.5
100°	76.7	77.0	77.5	77.9	78.3	78.7	63.7	48.7	33.7	18.8	11.1
102.5°	99.0	99.3	99.6	99.9	100.1	100.4	97.5	94.7	91.8	89.0	84.2
105°	134.5	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7
107.5°	169.6	169.7	169.8	170.1	170.3	170.5	170.5	170.6	170.6	170.6	170.4
110°	193.5	193.5	193.8	193.9	194.2	194.3	194.1	193.8	193.5	193.1	193.1



TEST NUMBER: P333586-927

CATALOG NUMBER: S125RDIP-S1090D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	216.8	217.0	217.1	217.2	217.4	217.5	217.1	216.7	216.3	215.9	215.7
115°	251.5	251.8	251.9	252.0	252.1	252.2	251.8	251.4	251.0	250.6	250.1
117.5°	284.2	284.4	284.8	285.2	285.5	285.9	285.4	284.9	284.3	283.8	283.4
120°	305.5	305.7	306.0	306.3	306.6	306.9	306.7	306.5	306.3	306.1	305.7
122.5°	326.7	326.9	327.1	327.3	327.3	327.5	327.3	327.1	326.9	326.7	326.3
125°	357.6	358.0	358.0	358.0	358.0	358.0	357.6	357.2	356.7	356.3	356.0
127.5°	385.1	385.3	385.2	385.2	385.2	385.1	384.8	384.6	384.4	384.2	383.7
130°	402.4	402.7	402.8	403.0	403.1	403.1	402.8	402.6	402.3	402.0	401.6
132.5°	420.1	420.3	420.1	419.9	419.6	419.5	419.4	419.3	419.2	419.2	418.9
135°	444.9	445.1	444.9	444.7	444.5	444.3	444.1	443.9	443.7	443.5	443.1
137.5°	467.2	467.5	467.2	467.1	466.9	466.7	466.8	466.8	466.8	466.8	466.6
140°	480.8	480.9	480.8	480.6	480.5	480.5	480.6	480.9	481.0	481.3	481.0
142.5°	493.8	494.0	494.2	494.2	494.4	494.6	494.6	494.6	494.6	494.7	494.4
145°	513.8	513.9	513.9	513.9	513.9	513.9	514.0	514.1	514.2	514.3	514.0
147.5°	530.0	530.0	530.1	530.3	530.4	530.5	530.7	530.8	530.9	531.0	530.7
150°	540.2	540.2	540.4	540.6	540.8	541.0	541.2	541.4	541.6	541.8	541.5
152.5°	549.7	549.6	549.8	550.0	550.2	550.4	550.6	550.8	551.0	551.2	551.0
155°	562.5	562.4	562.5	562.8	562.9	563.2	563.5	563.8	564.0	564.4	564.1
157.5°	573.9	573.8	573.8	573.8	573.8	573.9	574.2	574.5	574.8	575.1	574.9
160°	580.2	580.0	580.0	580.1	580.2	580.4	580.7	581.1	581.5	581.9	581.7
162.5°	586.0	585.7	585.8	585.9	586.0	586.1	586.7	587.2	587.8	588.4	588.2
165°	593.7	593.5	593.6	593.7	593.8	593.9	594.5	595.1	595.7	596.3	596.2
167.5°	599.4	599.2	599.3	599.4	599.4	599.6	600.3	601.0	601.7	602.5	602.4
170°	602.4	602.1	602.1	602.3	602.4	602.5	603.2	604.1	604.9	605.7	605.6
172.5°	604.5	604.3	604.4	604.7	604.8	605.0	605.7	606.4	607.2	607.9	607.8
175°	607.3	607.0	607.1	607.3	607.4	607.4	608.2	609.0	609.8	610.7	610.6
177.5°	608.9	608.6	608.7	608.8	608.9	609.0	609.6	610.1	610.7	611.2	611.2
180°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7



TEST NUMBER: P333586-927

CATALOG NUMBER: S125RDIP-S1090D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1247.7	1243.0	1241.7	1243.4	1241.7	1243.0	1247.7	1248.2	1248.6	1252.0	1247.3
5°	1151.2	1145.8	1148.5	1147.4	1148.5	1145.8	1151.2	1156.5	1157.5	1162.4	1165.6
7.5°	1066.3	1059.6	1052.6	1054.8	1052.6	1059.6	1066.3	1066.4	1074.7	1080.9	1085.1
10°	1006.8	1001.5	998.2	1000.9	998.2	1001.5	1006.8	1013.8	1016.9	1024.5	1032.5
12.5°	956.7	953.5	950.8	949.6	950.8	953.5	956.7	964.2	971.6	980.4	989.3
15°	888.7	882.3	879.6	872.6	879.6	882.3	888.7	895.1	909.5	913.2	926.6
17.5°	825.9	823.7	816.7	813.8	816.7	823.7	825.9	831.3	838.0	851.8	861.8
20°	788.6	786.5	779.6	783.9	779.6	786.5	788.6	796.7	802.0	813.3	822.8
22.5°	757.9	753.1	750.9	749.6	750.9	753.1	757.9	761.6	768.7	779.0	790.0
25°	714.3	707.3	704.7	701.5	704.7	707.3	714.3	716.4	724.0	734.1	740.0
27.5°	670.9	667.2	663.6	662.8	663.6	667.2	670.9	673.9	680.4	689.3	699.9
30°	642.7	639.0	636.3	636.3	636.3	639.0	642.7	649.1	653.9	661.9	669.9
32.5°	617.4	614.6	611.9	611.5	611.9	614.6	617.4	620.8	626.5	635.4	643.9
35°	580.7	576.4	575.3	572.1	575.3	576.4	580.7	583.4	589.2	595.6	602.6
37.5°	542.5	538.9	538.8	538.5	538.8	538.9	542.5	547.2	552.1	557.9	566.4
40°	518.1	515.4	514.9	511.1	514.9	515.4	518.1	520.2	525.6	533.1	539.5
42.5°	492.0	490.6	488.8	487.2	488.8	490.6	492.0	496.3	500.8	506.1	514.3
45°	456.6	452.9	452.9	450.2	452.9	452.9	456.6	460.3	462.5	468.9	479.6
47.5°	420.0	417.2	417.5	414.7	417.5	417.2	420.0	421.2	424.6	430.9	436.8
50°	395.7	394.0	393.6	392.4	393.6	394.0	395.7	395.1	399.4	405.3	413.3
52.5°	371.3	370.5	372.6	370.2	372.6	370.5	371.3	372.5	375.4	379.2	386.8
55°	338.4	336.8	340.1	336.8	340.1	336.8	338.4	337.4	338.4	342.2	347.0
57.5°	300.7	299.2	302.1	300.5	302.1	299.2	300.7	301.0	304.1	304.7	309.0
60°	275.9	272.7	274.3	274.8	274.3	272.7	275.9	276.9	278.1	278.5	282.8
62.5°	246.4	244.5	245.7	243.2	245.7	244.5	246.4	248.7	251.1	253.7	256.4
65°	204.8	203.2	201.1	199.9	201.1	203.2	204.8	205.9	211.8	214.9	220.9
67.5°	172.1	168.2	168.1	169.0	168.1	168.2	172.1	171.8	176.1	178.7	182.7
70°	148.1	148.1	147.6	147.6	147.6	148.1	148.1	151.3	153.4	155.6	158.3
72.5°	131.4	131.0	130.0	129.6	130.0	131.0	131.4	132.5	133.8	135.9	138.6
75°	105.8	106.4	105.4	104.8	105.4	106.4	105.8	105.8	108.0	108.5	109.6
77.5°	78.2	75.9	77.1	75.9	77.1	75.9	78.2	80.3	81.0	83.4	83.5
80°	59.3	58.8	60.4	58.8	60.4	58.8	59.3	59.3	60.9	62.0	64.7
82.5°	47.0	46.4	47.1	45.9	47.1	46.4	47.0	46.5	47.3	48.8	48.4
85°	28.4	27.8	27.3	27.8	27.3	27.8	28.4	27.8	27.3	27.8	28.4
87.5°	11.8	11.5	11.5	11.6	11.5	11.5	11.8	11.3	11.7	11.6	11.5
90°	10.0	10.2	10.5	10.9	10.5	10.2	10.0	9.7	9.3	8.7	8.2
92.5°	9.7	9.8	10.0	10.1	10.0	9.8	9.7	9.6	9.3	8.7	8.2
95°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.3	8.7	8.2
97.5°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.9	13.7	16.6
100°	10.7	10.3	9.9	9.5	9.9	10.3	10.7	11.1	18.8	33.7	48.7
102.5°	77.3	70.5	63.7	56.9	63.7	70.5	77.3	84.2	89.0	91.8	94.7
105°	134.5	134.4	134.4	134.2	134.4	134.4	134.5	134.7	134.7	134.7	134.7
107.5°	170.2	169.8	169.5	169.2	169.5	169.8	170.2	170.4	170.6	170.6	170.6
110°	193.1	193.2	193.4	193.5	193.4	193.2	193.1	193.1	193.1	193.5	193.8



TEST NUMBER: P333586-927

CATALOG NUMBER: S125RDIP-S1090D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	215.6	215.4	215.3	215.2	215.3	215.4	215.6	215.7	215.9	216.3	216.7
115°	249.5	248.9	248.3	247.7	248.3	248.9	249.5	250.1	250.6	251.0	251.4
117.5°	283.2	282.9	282.7	282.4	282.7	282.9	283.2	283.4	283.8	284.3	284.9
120°	305.2	304.8	304.2	303.7	304.2	304.8	305.2	305.7	306.1	306.3	306.5
122.5°	325.7	325.1	324.6	324.0	324.6	325.1	325.7	326.3	326.7	326.9	327.1
125°	355.7	355.4	355.1	354.8	355.1	355.4	355.7	356.0	356.3	356.7	357.2
127.5°	382.9	382.2	381.5	380.7	381.5	382.2	382.9	383.7	384.2	384.4	384.6
130°	401.1	400.5	400.1	399.6	400.1	400.5	401.1	401.6	402.0	402.3	402.6
132.5°	418.4	417.9	417.4	416.9	417.4	417.9	418.4	418.9	419.2	419.2	419.3
135°	442.5	441.9	441.2	440.7	441.2	441.9	442.5	443.1	443.5	443.7	443.9
137.5°	466.1	465.6	465.1	464.5	465.1	465.6	466.1	466.6	466.8	466.8	466.8
140°	480.5	479.8	479.3	478.6	479.3	479.8	480.5	481.0	481.3	481.0	480.9
142.5°	493.8	493.2	492.6	492.0	492.6	493.2	493.8	494.4	494.7	494.6	494.6
145°	513.4	512.9	512.2	511.6	512.2	512.9	513.4	514.0	514.3	514.2	514.1
147.5°	530.0	529.3	528.5	527.8	528.5	529.3	530.0	530.7	531.0	530.9	530.8
150°	540.7	539.9	539.1	538.3	539.1	539.9	540.7	541.5	541.8	541.6	541.4
152.5°	550.2	549.5	548.7	548.0	548.7	549.5	550.2	551.0	551.2	551.0	550.8
155°	563.3	562.5	561.7	560.9	561.7	562.5	563.3	564.1	564.4	564.0	563.8
157.5°	574.1	573.2	572.4	571.6	572.4	573.2	574.1	574.9	575.1	574.8	574.5
160°	580.9	580.1	579.3	578.5	579.3	580.1	580.9	581.7	581.9	581.5	581.1
162.5°	587.3	586.5	585.6	584.6	585.6	586.5	587.3	588.2	588.4	587.8	587.2
165°	595.4	594.6	593.8	592.9	593.8	594.6	595.4	596.2	596.3	595.7	595.1
167.5°	601.5	600.6	599.7	598.7	599.7	600.6	601.5	602.4	602.5	601.7	601.0
170°	604.8	603.8	602.9	602.1	602.9	603.8	604.8	605.6	605.7	604.9	604.1
172.5°	606.9	606.0	605.1	604.2	605.1	606.0	606.9	607.8	607.9	607.2	606.4
175°	609.7	608.8	607.9	607.0	607.9	608.8	609.7	610.6	610.7	609.8	609.0
177.5°	610.5	609.9	609.3	608.6	609.3	609.9	610.5	611.2	611.2	610.7	610.1
180°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7



TEST NUMBER: P333586-927

CATALOG NUMBER: S125RDIP-S1090D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1248.6	1253.3	1255.8	1261.9	1270.4	1274.7	1280.6	1284.9	1290.9	1298.2	1304.2
5°	1167.8	1180.6	1189.1	1202.5	1214.8	1227.1	1242.6	1253.8	1268.8	1285.9	1299.3
7.5°	1092.7	1108.7	1122.9	1140.6	1160.9	1176.7	1196.9	1217.6	1241.0	1265.3	1288.2
10°	1044.7	1060.8	1078.5	1100.3	1120.7	1142.1	1166.1	1190.2	1219.6	1246.9	1277.9
12.5°	997.3	1015.0	1034.8	1059.3	1083.9	1111.3	1135.8	1162.8	1194.4	1229.8	1262.9
15°	938.3	955.5	976.8	997.7	1026.0	1056.0	1088.6	1124.4	1159.7	1199.3	1240.5
17.5°	875.1	894.0	917.5	941.7	971.5	1006.5	1038.6	1077.8	1117.5	1163.6	1212.0
20°	834.1	853.3	881.1	907.9	935.2	969.4	1007.3	1047.4	1089.6	1138.4	1192.3
22.5°	801.6	815.3	842.6	869.8	901.8	936.8	974.0	1015.8	1061.8	1112.2	1168.8
25°	753.4	769.4	789.2	817.5	850.6	887.6	925.0	969.4	1019.6	1071.0	1131.4
27.5°	710.5	723.7	743.2	765.4	798.5	836.8	876.5	922.8	974.4	1026.7	1090.2
30°	680.1	694.5	713.3	736.8	763.0	804.7	845.3	890.8	943.2	997.2	1062.4
32.5°	653.6	668.4	684.6	706.9	735.1	772.2	814.1	858.7	912.0	967.7	1031.2
35°	616.5	626.6	641.6	663.5	691.3	721.3	764.1	811.1	863.0	920.8	984.4
37.5°	573.9	587.1	601.9	621.0	645.4	677.8	717.6	765.1	813.3	868.5	926.6
40°	549.1	561.4	578.0	591.9	617.6	647.0	683.3	733.0	781.2	833.1	886.0
42.5°	523.9	535.8	549.8	567.0	590.2	618.7	652.5	698.8	750.4	799.2	843.6
45°	484.4	496.7	510.1	526.1	547.5	575.3	609.0	651.3	696.2	741.1	774.8
47.5°	446.6	458.2	470.9	487.3	507.0	533.9	564.0	601.3	644.9	683.1	707.2
50°	419.7	430.4	444.3	460.3	479.6	504.7	533.6	570.5	606.9	641.6	663.5
52.5°	393.2	405.2	419.1	433.0	451.4	476.5	503.3	535.0	569.7	598.0	616.1
55°	353.4	364.6	377.5	391.9	410.1	431.5	459.9	485.0	512.2	536.3	547.0
57.5°	315.1	324.9	336.9	351.9	368.3	388.2	410.7	434.8	454.1	471.0	483.2
60°	289.8	298.3	309.6	322.4	340.1	358.2	378.6	401.0	416.0	430.4	441.6
62.5°	264.1	272.3	283.0	294.6	310.1	327.0	346.5	364.6	379.2	389.0	401.9
65°	225.6	233.6	242.7	255.0	267.4	281.2	298.9	312.3	322.4	333.1	341.1
67.5°	189.8	196.5	205.1	214.8	225.1	238.4	252.2	263.2	270.2	276.6	286.3
70°	166.3	171.7	178.6	186.1	197.3	210.6	221.3	229.9	234.7	241.1	252.9
72.5°	142.4	148.5	155.0	162.6	171.7	182.8	192.3	200.8	203.9	209.1	216.6
75°	112.3	115.5	120.8	126.2	132.6	142.2	151.3	153.4	156.1	160.4	165.7
77.5°	84.9	87.8	89.9	93.5	98.6	106.3	111.1	114.3	114.9	116.5	121.8
80°	67.3	69.0	71.1	73.8	75.9	82.3	85.0	88.2	89.3	90.9	93.6
82.5°	49.4	51.0	52.3	54.5	58.0	60.5	63.2	66.4	66.6	67.8	68.4
85°	28.8	29.4	28.4	29.4	29.9	31.0	33.7	36.4	35.8	35.3	36.9
87.5°	11.8	11.7	11.2	12.3	11.3	11.6	11.4	11.7	12.4	13.1	13.8
90°	7.8	7.2	6.5	5.9	5.1	4.4	3.6	2.9	2.1	1.3	0.5
92.5°	7.8	7.2	6.6	6.0	5.4	4.8	4.7	5.3	5.9	6.4	7.0
95°	7.8	7.2	11.0	14.9	18.7	22.5	24.6	24.9	25.2	25.4	25.7
97.5°	19.4	22.3	29.8	37.3	44.9	52.4	55.9	55.4	54.9	54.3	53.8
100°	63.7	78.7	78.3	77.9	77.5	77.0	76.7	76.4	76.0	75.8	75.5
102.5°	97.5	100.4	100.1	99.9	99.6	99.3	99.0	98.7	98.3	97.9	97.5
105°	134.7	134.7	134.7	134.7	134.7	134.7	134.5	134.1	133.7	133.2	132.8
107.5°	170.5	170.5	170.3	170.1	169.8	169.7	169.6	169.6	169.6	169.6	169.6
110°	194.1	194.3	194.2	193.9	193.8	193.5	193.5	193.5	193.5	193.5	193.5



TEST NUMBER: P333586-927

CATALOG NUMBER: S125RDIP-S1090D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	217.1	217.5	217.4	217.2	217.1	217.0	216.8	216.6	216.3	216.1	215.9
115°	251.8	252.2	252.1	252.0	251.9	251.8	251.5	251.0	250.5	250.0	249.5
117.5°	285.4	285.9	285.5	285.2	284.8	284.4	284.2	284.2	284.2	284.2	284.3
120°	306.7	306.9	306.6	306.3	306.0	305.7	305.5	305.7	305.8	305.9	306.0
122.5°	327.3	327.5	327.3	327.3	327.1	326.9	326.7	326.3	325.9	325.5	325.1
125°	357.6	358.0	358.0	358.0	358.0	358.0	357.6	356.9	356.2	355.5	354.8
127.5°	384.8	385.1	385.2	385.2	385.2	385.3	385.1	384.6	384.1	383.6	383.1
130°	402.8	403.1	403.1	403.0	402.8	402.7	402.4	402.0	401.5	400.9	400.4
132.5°	419.4	419.5	419.6	419.9	420.1	420.3	420.1	419.5	419.0	418.4	417.8
135°	444.1	444.3	444.5	444.7	444.9	445.1	444.9	444.3	443.7	443.1	442.5
137.5°	466.8	466.7	466.9	467.1	467.2	467.5	467.2	466.8	466.2	465.7	465.2
140°	480.6	480.5	480.5	480.6	480.8	480.9	480.8	480.6	480.4	480.2	480.0
142.5°	494.6	494.6	494.4	494.2	494.2	494.0	493.8	493.8	493.6	493.5	493.4
145°	514.0	513.9	513.9	513.9	513.9	513.9	513.8	513.6	513.4	513.2	513.0
147.5°	530.7	530.5	530.4	530.3	530.1	530.0	530.0	530.0	530.0	530.1	530.1
150°	541.2	541.0	540.8	540.6	540.4	540.2	540.2	540.4	540.6	540.8	541.0
152.5°	550.6	550.4	550.2	550.0	549.8	549.6	549.7	550.2	550.6	551.0	551.5
155°	563.5	563.2	562.9	562.8	562.5	562.4	562.5	563.2	563.8	564.4	565.0
157.5°	574.2	573.9	573.8	573.8	573.8	573.8	573.9	574.3	574.6	575.0	575.4
160°	580.7	580.4	580.2	580.1	580.0	580.0	580.2	580.7	581.4	582.0	582.6
162.5°	586.7	586.1	586.0	585.9	585.8	585.7	586.0	586.5	587.2	587.8	588.4
165°	594.5	593.9	593.8	593.7	593.6	593.5	593.7	594.4	594.9	595.6	596.1
167.5°	600.3	599.6	599.4	599.4	599.3	599.2	599.4	600.1	600.7	601.3	601.9
170°	603.2	602.5	602.4	602.3	602.1	602.1	602.4	603.1	603.8	604.5	605.2
172.5°	605.7	605.0	604.8	604.7	604.4	604.3	604.5	605.2	605.9	606.7	607.4
175°	608.2	607.4	607.4	607.3	607.1	607.0	607.3	607.9	608.5	609.1	609.7
177.5°	609.6	609.0	608.9	608.8	608.7	608.6	608.9	609.3	609.8	610.3	610.8
180°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7



TEST NUMBER: P333586-927

CATALOG NUMBER: S125RDIP-S1090D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1308.9	1312.7	1318.3	1324.7	1329.8	1335.4	1338.4	1338.4	1341.0	1346.6	1353.8
5°	1312.6	1326.5	1339.9	1357.0	1370.4	1385.8	1397.6	1408.9	1419.0	1431.9	1445.3
7.5°	1311.5	1334.7	1358.8	1385.7	1415.4	1439.0	1463.3	1482.3	1501.2	1525.7	1545.1
10°	1307.3	1337.2	1369.8	1404.1	1441.5	1474.1	1503.5	1530.3	1555.9	1582.6	1606.7
12.5°	1299.6	1337.7	1377.5	1418.6	1465.9	1503.2	1541.2	1569.6	1599.6	1628.8	1658.4
15°	1288.0	1332.9	1381.1	1438.3	1496.0	1537.7	1575.2	1612.1	1639.8	1673.0	1701.4
17.5°	1264.2	1322.1	1382.6	1445.1	1500.6	1549.0	1588.3	1623.4	1653.0	1689.5	1728.0
20°	1250.1	1312.6	1375.7	1442.6	1495.5	1545.2	1583.2	1619.5	1656.5	1704.0	1751.0
22.5°	1230.4	1297.2	1364.1	1427.6	1483.5	1531.5	1570.7	1615.3	1663.7	1717.7	1774.6
25°	1199.3	1268.3	1334.6	1395.0	1449.5	1498.7	1552.2	1612.1	1670.9	1742.0	1823.8
27.5°	1159.8	1226.3	1285.5	1349.3	1403.5	1466.1	1532.8	1597.8	1682.5	1780.4	1882.5
30°	1130.3	1193.4	1249.5	1310.0	1371.4	1440.4	1515.3	1591.7	1692.8	1807.8	1929.1
32.5°	1096.1	1153.2	1208.9	1267.2	1338.1	1413.9	1493.4	1587.1	1707.8	1838.6	1964.2
35°	1036.7	1088.1	1142.1	1206.7	1282.1	1364.5	1466.1	1580.0	1725.9	1866.5	1979.3
37.5°	974.5	1015.0	1069.2	1137.5	1219.6	1314.9	1430.1	1568.5	1718.5	1844.6	1892.7
40°	926.6	964.6	1021.8	1093.4	1174.6	1279.0	1408.3	1550.5	1701.4	1789.1	1785.3
42.5°	879.1	917.5	972.6	1044.7	1129.3	1246.0	1379.3	1527.0	1654.3	1687.7	1618.0
45°	806.3	842.1	896.1	968.8	1059.7	1182.2	1322.2	1464.0	1545.2	1491.2	1353.3
47.5°	732.1	766.8	817.0	888.2	987.5	1115.6	1248.0	1364.3	1375.7	1259.7	1094.2
50°	683.3	715.9	763.5	839.5	935.6	1060.8	1188.6	1280.0	1251.6	1110.0	939.4
52.5°	635.8	667.2	711.8	783.4	881.8	1004.3	1118.4	1190.2	1124.7	974.0	820.5
55°	565.7	595.6	640.6	706.3	795.6	907.9	1007.9	1034.0	937.8	786.0	661.9
57.5°	499.1	521.0	565.4	623.5	709.6	808.7	880.3	875.6	769.4	632.6	543.7
60°	455.0	474.8	517.1	570.5	652.3	741.1	791.3	769.9	662.5	549.6	464.1
62.5°	413.9	432.5	467.9	517.1	587.3	664.5	701.1	671.5	570.1	471.0	402.9
65°	351.8	365.2	393.6	438.9	494.0	547.5	580.1	536.8	447.0	372.2	320.8
67.5°	293.7	305.3	330.5	363.1	401.1	438.0	451.3	410.7	340.8	290.3	254.2
70°	256.1	266.8	283.9	314.4	339.5	365.8	372.2	335.8	277.5	239.0	216.6
72.5°	220.1	230.0	245.0	266.5	283.9	299.0	302.0	268.2	223.6	197.1	179.7
75°	167.9	176.4	186.1	194.1	205.3	208.0	206.9	180.7	156.7	139.0	129.4
77.5°	123.4	126.9	132.8	136.0	136.6	136.3	130.9	114.3	101.9	94.7	90.7
80°	95.1	97.8	99.4	100.5	101.1	95.7	89.8	79.7	75.4	71.1	66.3
82.5°	69.1	70.9	72.5	72.7	69.8	65.4	59.9	54.8	51.9	49.7	47.9
85°	37.4	37.9	37.4	34.8	31.0	29.4	28.4	27.3	26.7	26.2	26.2
87.5°	13.5	12.4	10.4	11.0	11.2	10.9	11.0	10.7	10.5	10.5	10.6
90°	1.3	2.1	2.9	3.6	4.4	5.1	5.9	6.5	7.2	7.8	8.2
92.5°	6.4	5.9	5.3	4.7	4.8	5.4	6.0	6.6	7.2	7.8	8.2
95°	25.4	25.2	24.9	24.6	22.5	18.7	14.9	11.0	7.2	7.8	8.2
97.5°	54.3	54.9	55.4	55.9	52.4	44.9	37.3	29.8	22.3	19.4	16.6
100°	75.8	76.0	76.4	76.7	77.0	77.5	77.9	78.3	78.7	63.7	48.7
102.5°	97.9	98.3	98.7	99.0	99.3	99.6	99.9	100.1	100.4	97.5	94.7
105°	133.2	133.7	134.1	134.5	134.7	134.7	134.7	134.7	134.7	134.7	134.7
107.5°	169.6	169.6	169.6	169.6	169.7	169.8	170.1	170.3	170.5	170.5	170.6
110°	193.5	193.5	193.5	193.5	193.5	193.8	193.9	194.2	194.3	194.1	193.8



TEST NUMBER: P333586-927

CATALOG NUMBER: S125RDIP-S1090D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	216.1	216.3	216.6	216.8	217.0	217.1	217.2	217.4	217.5	217.1	216.7
115°	250.0	250.5	251.0	251.5	251.8	251.9	252.0	252.1	252.2	251.8	251.4
117.5°	284.2	284.2	284.2	284.2	284.4	284.8	285.2	285.5	285.9	285.4	284.9
120°	305.9	305.8	305.7	305.5	305.7	306.0	306.3	306.6	306.9	306.7	306.5
122.5°	325.5	325.9	326.3	326.7	326.9	327.1	327.3	327.3	327.5	327.3	327.1
125°	355.5	356.2	356.9	357.6	358.0	358.0	358.0	358.0	358.0	357.6	357.2
127.5°	383.6	384.1	384.6	385.1	385.3	385.2	385.2	385.2	385.1	384.8	384.6
130°	400.9	401.5	402.0	402.4	402.7	402.8	403.0	403.1	403.1	402.8	402.6
132.5°	418.4	419.0	419.5	420.1	420.3	420.1	419.9	419.6	419.5	419.4	419.3
135°	443.1	443.7	444.3	444.9	445.1	444.9	444.7	444.5	444.3	444.1	443.9
137.5°	465.7	466.2	466.8	467.2	467.5	467.2	467.1	466.9	466.7	466.8	466.8
140°	480.2	480.4	480.6	480.8	480.9	480.8	480.6	480.5	480.5	480.6	480.9
142.5°	493.5	493.6	493.8	493.8	494.0	494.2	494.2	494.4	494.6	494.6	494.6
145°	513.2	513.4	513.6	513.8	513.9	513.9	513.9	513.9	513.9	514.0	514.1
147.5°	530.1	530.0	530.0	530.0	530.0	530.1	530.3	530.4	530.5	530.7	530.8
150°	540.8	540.6	540.4	540.2	540.2	540.4	540.6	540.8	541.0	541.2	541.4
152.5°	551.0	550.6	550.2	549.7	549.6	549.8	550.0	550.2	550.4	550.6	550.8
155°	564.4	563.8	563.2	562.5	562.4	562.5	562.8	562.9	563.2	563.5	563.8
157.5°	575.0	574.6	574.3	573.9	573.8	573.8	573.8	573.8	573.9	574.2	574.5
160°	582.0	581.4	580.7	580.2	580.0	580.0	580.1	580.2	580.4	580.7	581.1
162.5°	587.8	587.2	586.5	586.0	585.7	585.8	585.9	586.0	586.1	586.7	587.2
165°	595.6	594.9	594.4	593.7	593.5	593.6	593.7	593.8	593.9	594.5	595.1
167.5°	601.3	600.7	600.1	599.4	599.2	599.3	599.4	599.4	599.6	600.3	601.0
170°	604.5	603.8	603.1	602.4	602.1	602.1	602.3	602.4	602.5	603.2	604.1
172.5°	606.7	605.9	605.2	604.5	604.3	604.4	604.7	604.8	605.0	605.7	606.4
175°	609.1	608.5	607.9	607.3	607.0	607.1	607.3	607.4	607.4	608.2	609.0
177.5°	610.3	609.8	609.3	608.9	608.6	608.7	608.8	608.9	609.0	609.6	610.1
180°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7



TEST NUMBER: P333586-927

CATALOG NUMBER: S125RDIP-S1090D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1359.4	1359.4	1366.7	1366.2	1371.0	1369.2	1370.1
5°	1461.3	1470.4	1478.4	1483.8	1491.8	1493.9	1492.8
7.5°	1566.9	1587.1	1597.0	1610.4	1612.9	1619.9	1619.2
10°	1632.4	1652.2	1667.1	1678.9	1684.7	1692.3	1692.8
12.5°	1683.7	1700.5	1713.7	1724.7	1731.8	1734.2	1735.6
15°	1723.8	1742.5	1758.0	1773.5	1782.6	1789.5	1793.3
17.5°	1764.2	1793.1	1820.4	1841.5	1854.2	1864.9	1864.7
20°	1795.5	1828.6	1862.8	1886.9	1911.5	1922.2	1923.7
22.5°	1828.8	1879.5	1923.6	1960.9	1993.1	2004.3	2008.5
25°	1898.1	1964.4	2032.3	2084.7	2122.1	2144.0	2147.3
27.5°	1981.8	2071.6	2143.0	2191.3	2222.5	2238.7	2242.2
30°	2040.9	2123.8	2187.9	2224.3	2238.7	2240.8	2232.8
32.5°	2067.4	2129.3	2155.0	2152.8	2124.5	2105.7	2098.5
35°	2035.0	2022.1	1959.6	1884.8	1827.6	1791.2	1781.5
37.5°	1851.9	1741.2	1626.2	1513.1	1452.9	1422.2	1369.6
40°	1671.4	1513.7	1393.9	1298.7	1230.8	1176.3	1163.5
42.5°	1467.8	1305.0	1185.2	1103.7	1049.5	1012.0	995.8
45°	1179.5	1039.4	940.5	878.0	836.2	809.0	796.7
47.5°	943.4	835.0	762.9	716.6	684.8	661.1	654.4
50°	813.8	727.1	666.2	627.2	603.1	584.9	577.4
52.5°	706.9	636.9	590.1	557.9	535.1	523.8	517.5
55°	583.4	522.9	489.3	463.6	450.8	441.6	437.4
57.5°	477.1	433.4	408.8	391.1	379.2	373.4	371.3
60°	417.6	383.3	360.9	347.0	339.0	331.5	329.4
62.5°	365.0	338.0	320.7	308.5	300.5	297.3	296.0
65°	294.1	276.4	263.6	256.1	249.7	248.6	248.1
67.5°	233.8	223.4	216.7	208.8	206.6	202.9	202.1
70°	199.9	193.1	185.0	182.4	179.7	175.9	176.4
72.5°	169.6	162.6	157.2	153.7	152.7	151.1	152.5
75°	124.1	121.9	119.8	117.1	116.1	116.1	115.5
77.5°	88.6	86.7	84.4	82.8	82.5	80.2	81.0
80°	64.2	61.5	60.4	60.9	59.3	58.8	58.8
82.5°	47.5	46.5	45.5	45.6	45.2	44.7	45.2
85°	26.2	25.7	25.7	25.1	25.1	24.6	24.6
87.5°	11.2	11.7	10.9	10.5	10.6	11.1	11.6
90°	8.7	9.3	9.7	10.0	10.2	10.5	10.9
92.5°	8.7	9.3	9.6	9.7	9.8	10.0	10.1
95°	8.7	9.3	9.5	9.5	9.5	9.5	9.5
97.5°	13.7	10.9	9.5	9.5	9.5	9.5	9.5
100°	33.7	18.8	11.1	10.7	10.3	9.9	9.5
102.5°	91.8	89.0	84.2	77.3	70.5	63.7	56.9
105°	134.7	134.7	134.7	134.5	134.4	134.4	134.2
107.5°	170.6	170.6	170.4	170.2	169.8	169.5	169.2
110°	193.5	193.1	193.1	193.1	193.2	193.4	193.5



TEST NUMBER: P333586-927

CATALOG NUMBER: S125RDIP-S1090D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	216.3	215.9	215.7	215.6	215.4	215.3	215.2
115°	251.0	250.6	250.1	249.5	248.9	248.3	247.7
117.5°	284.3	283.8	283.4	283.2	282.9	282.7	282.4
120°	306.3	306.1	305.7	305.2	304.8	304.2	303.7
122.5°	326.9	326.7	326.3	325.7	325.1	324.6	324.0
125°	356.7	356.3	356.0	355.7	355.4	355.1	354.8
127.5°	384.4	384.2	383.7	382.9	382.2	381.5	380.7
130°	402.3	402.0	401.6	401.1	400.5	400.1	399.6
132.5°	419.2	419.2	418.9	418.4	417.9	417.4	416.9
135°	443.7	443.5	443.1	442.5	441.9	441.2	440.7
137.5°	466.8	466.8	466.6	466.1	465.6	465.1	464.5
140°	481.0	481.3	481.0	480.5	479.8	479.3	478.6
142.5°	494.6	494.7	494.4	493.8	493.2	492.6	492.0
145°	514.2	514.3	514.0	513.4	512.9	512.2	511.6
147.5°	530.9	531.0	530.7	530.0	529.3	528.5	527.8
150°	541.6	541.8	541.5	540.7	539.9	539.1	538.3
152.5°	551.0	551.2	551.0	550.2	549.5	548.7	548.0
155°	564.0	564.4	564.1	563.3	562.5	561.7	560.9
157.5°	574.8	575.1	574.9	574.1	573.2	572.4	571.6
160°	581.5	581.9	581.7	580.9	580.1	579.3	578.5
162.5°	587.8	588.4	588.2	587.3	586.5	585.6	584.6
165°	595.7	596.3	596.2	595.4	594.6	593.8	592.9
167.5°	601.7	602.5	602.4	601.5	600.6	599.7	598.7
170°	604.9	605.7	605.6	604.8	603.8	602.9	602.1
172.5°	607.2	607.9	607.8	606.9	606.0	605.1	604.2
175°	609.8	610.7	610.6	609.7	608.8	607.9	607.0
177.5°	610.7	611.2	611.2	610.5	609.9	609.3	608.6
180°	609.7	609.7	609.7	609.7	609.7	609.7	609.7

(END OF REPORT)