

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: P333270-930

Luminaire Tested: **S125DIP-S1090D810U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333270-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIP-S1090D810U930-4F0-1E-UDD-A4
Description: DEFINE 5 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1090 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

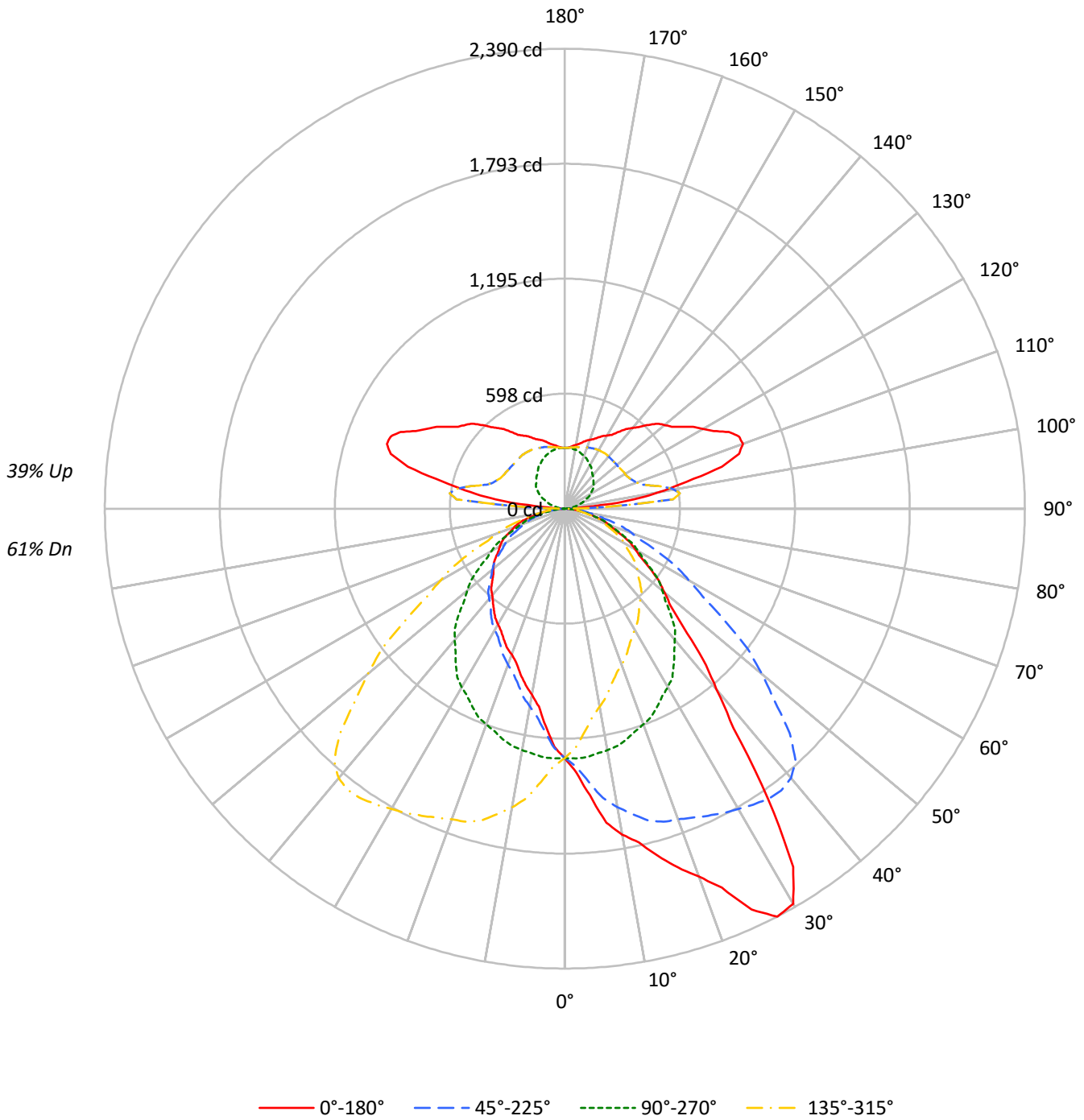
Lumens per Lamp: N/A
Luminaire Lumens: 6031.3 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 54.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66	61	
1	100	96	92	89	94	90	87	84	79	76	74	68	67	65	59	57	56	56	56	56	52	
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	48	48	48	44	
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	41	41	41	37	
4	77	66	58	52	72	62	55	49	55	49	45	48	43	40	41	38	35	35	35	35	32	
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	34	31	31	31	31	28	
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	30	27	27	27	27	25	
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	24	24	24	22	
8	56	43	36	30	52	41	34	29	37	31	27	32	28	24	29	25	22	22	22	22	20	
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	20	20	20	18	
10	49	36	29	24	46	35	28	23	31	25	22	28	23	20	24	21	18	18	18	18	16	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8373	8373	8373	8373
5°	9697	8401	7356	8401
10°	11281	8358	6445	8358
15°	12488	8297	5945	8297
20°	13978	8199	5544	8199
25°	16376	8089	5349	8089
30°	17687	7982	5179	7982
35°	14542	7779	5067	7779
40°	10336	7497	4945	7497
45°	7941	7117	4875	7117
50°	6779	6646	4866	6646
55°	6035	6184	4908	6184
60°	5444	5679	5032	5679
65°	5029	5171	5164	5171
70°	4572	4645	5238	4645
75°	4037	4092	5190	4092
80°	3396	3336	4749	3336
85°	2690	2401	3831	2401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	2.1
10°-20°	371.6	6.2
20°-30°	603.4	10.0
30°-40°	736.0	12.2
40°-50°	669.6	11.1
50°-60°	533.4	8.8
60°-70°	371.5	6.2
70°-80°	198.1	3.3
80°-90°	51.8	0.9
90°-100°	229.2	3.8
100°-110°	492.7	8.2
110°-120°	462.4	7.7
120°-130°	374.7	6.2
130°-140°	300.7	5.0
140°-150°	226.9	3.8
150°-160°	159.7	2.6
160°-170°	94.2	1.6
170°-180°	30.6	0.5
0°-30°	1099.8	18.2
0°-40°	1835.9	30.4
0°-60°	3038.8	50.4
0°-90°	3660.2	60.7
90°-120°	1184.3	19.6
90°-150°	2086.6	34.6
90°-180°	2371.0	39.3
0°-180°	6031.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1296	1296	1296	1296	1296	
5°	1496	1296	1135	1296	1496	151
15°	1868	1241	889	1241	1868	535
25°	2298	1135	751	1135	2298	1050
35°	1844	987	643	987	1844	1129
45°	869	779	534	779	869	696
55°	536	549	436	549	536	483
65°	329	338	338	338	329	327
75°	162	164	208	164	162	174
85°	36	32	52	32	36	42
90°	15	1	15	1	15	11
95°	150	21	150	21	150	212
105°	845	72	845	72	845	840
115°	941	129	941	129	941	919
125°	741	178	741	178	741	671
135°	616	209	616	209	616	477
145°	486	244	486	244	486	309
155°	407	278	407	278	407	190
165°	357	304	357	304	357	102
175°	321	316	321	316	321	31
180°	316	316	316	316	316	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1371.3	1369.5	1367.8	1364.2	1366.9	1359.4	1355.9	1349.7	1342.2	1339.6	1336.5
5°	1495.7	1498.4	1501.2	1489.6	1490.7	1483.0	1465.4	1451.1	1439.6	1424.7	1414.2
7.5°	1645.4	1638.8	1638.3	1630.8	1618.0	1607.6	1589.1	1565.5	1542.8	1516.8	1495.3
10°	1720.2	1720.8	1715.8	1707.0	1693.2	1683.3	1659.1	1636.0	1607.9	1574.9	1551.3
12.5°	1776.5	1778.8	1772.6	1760.7	1754.0	1731.8	1712.9	1685.3	1652.0	1625.5	1589.6
15°	1867.7	1861.7	1857.3	1842.3	1830.8	1807.7	1777.4	1748.8	1712.5	1678.9	1645.4
17.5°	1955.5	1960.3	1952.1	1938.5	1902.7	1875.7	1835.1	1795.9	1750.7	1705.7	1665.6
20°	2033.8	2038.2	2025.6	2002.0	1959.0	1932.1	1878.7	1828.1	1775.8	1718.0	1674.0
22.5°	2131.6	2128.1	2111.0	2075.0	2037.8	1987.9	1930.2	1868.6	1803.0	1737.8	1679.3
25°	2298.0	2274.8	2264.4	2219.9	2170.9	2097.7	2018.4	1928.2	1846.7	1760.4	1685.5
27.5°	2390.2	2383.0	2371.3	2340.2	2288.8	2210.5	2117.1	2007.1	1892.2	1783.1	1685.2
30°	2371.7	2372.8	2373.9	2364.0	2331.0	2272.2	2179.1	2060.8	1924.4	1801.6	1688.2
32.5°	2208.0	2228.0	2247.1	2269.8	2279.1	2267.8	2209.5	2102.7	1962.2	1822.8	1686.5
35°	1844.5	1850.6	1912.8	1974.4	2058.1	2123.0	2166.5	2119.1	2000.8	1840.7	1684.4
37.5°	1438.3	1467.9	1511.0	1580.6	1701.4	1809.5	1948.5	2012.4	1974.2	1846.6	1680.6
40°	1226.0	1253.5	1281.7	1352.6	1454.4	1585.3	1743.3	1878.1	1909.5	1828.1	1667.4
42.5°	1062.3	1084.1	1115.2	1168.6	1253.7	1369.7	1520.5	1696.7	1805.2	1774.3	1639.6
45°	869.4	883.2	907.4	949.8	1011.5	1102.2	1235.4	1428.0	1595.9	1651.4	1573.9
47.5°	744.2	744.1	763.0	792.2	836.7	913.8	1012.3	1163.2	1342.5	1475.1	1468.9
50°	674.7	671.9	686.7	712.1	747.3	798.5	892.6	1013.1	1185.3	1335.5	1377.4
52.5°	614.8	615.1	624.3	642.9	672.5	716.2	786.4	895.1	1042.3	1196.5	1275.2
55°	536.0	533.8	544.2	556.9	578.4	607.0	657.6	740.7	860.1	1011.9	1114.4
57.5°	463.7	469.9	474.0	482.8	500.7	519.8	562.5	623.5	718.2	848.6	956.8
60°	421.5	427.5	430.9	439.7	454.0	470.5	503.5	553.0	632.8	745.1	852.4
62.5°	383.7	388.4	389.5	397.4	409.1	425.2	451.1	492.8	555.8	654.0	759.0
65°	329.1	329.1	331.3	339.5	345.0	359.3	379.1	409.4	460.1	536.5	626.2
67.5°	276.5	279.1	278.6	282.2	287.2	298.4	312.6	337.5	375.0	430.9	502.6
70°	242.1	244.3	243.8	246.5	252.0	259.2	270.8	294.4	321.4	369.2	430.9
72.5°	211.3	212.2	210.8	214.4	217.7	224.0	236.8	249.5	274.7	315.1	365.7
75°	161.8	162.9	164.0	166.2	169.5	172.8	179.4	192.1	208.6	238.8	271.3
77.5°	121.3	119.2	121.8	121.5	123.4	125.9	131.8	138.4	152.0	171.1	196.2
80°	91.3	91.9	91.9	92.5	95.2	96.9	101.8	106.7	117.2	131.5	149.1
82.5°	66.7	68.2	67.3	68.2	70.5	71.7	74.5	78.6	84.6	95.9	108.6
85°	36.3	33.6	34.7	35.8	35.8	36.3	38.5	40.2	43.5	47.9	52.8
87.5°	13.5	14.3	14.7	14.7	15.2	14.8	16.5	16.4	17.6	18.8	20.3
90°	14.7	14.7	14.0	14.0	14.0	12.7	12.1	11.5	10.8	10.2	8.9
92.5°	40.7	41.7	42.6	44.1	52.3	61.7	82.0	113.0	166.4	205.5	208.8
95°	149.8	160.0	165.1	184.3	229.5	283.1	361.4	458.4	552.7	564.8	460.9
97.5°	362.1	370.2	388.7	424.4	463.8	538.3	614.7	682.7	699.3	603.2	411.6
100°	497.3	507.4	531.0	576.9	620.9	687.2	752.8	784.1	735.0	575.7	367.2
102.5°	648.2	655.8	681.4	714.1	761.2	806.0	837.6	818.2	713.6	527.2	333.5
105°	844.7	852.3	865.0	886.1	906.5	913.5	885.5	798.1	645.1	462.2	300.9
107.5°	948.9	954.1	958.2	958.4	948.0	914.8	842.8	726.2	575.3	417.4	287.1
110°	983.7	983.7	979.2	967.0	938.3	884.2	794.3	673.2	535.5	396.5	283.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	979.6	974.9	963.8	943.1	901.2	837.2	746.3	631.4	505.9	384.3	283.1
115°	940.9	932.6	914.8	884.2	834.5	765.0	677.7	578.9	473.6	371.0	284.9
117.5°	873.2	868.1	850.4	818.8	769.1	705.3	630.1	544.9	454.4	364.5	289.2
120°	829.3	824.3	807.1	776.4	729.3	673.2	603.1	526.5	443.7	361.4	293.3
122.5°	790.6	786.0	768.8	740.8	698.7	646.1	583.7	512.8	434.5	358.9	296.8
125°	741.4	735.0	721.0	694.9	659.2	613.3	557.8	492.8	422.0	355.7	302.8
127.5°	699.3	696.5	683.2	660.1	627.8	584.8	533.0	472.4	410.5	354.2	309.6
130°	676.4	672.5	659.8	638.8	606.9	565.4	515.8	459.6	402.9	353.2	313.6
132.5°	653.4	649.1	637.3	616.3	584.4	544.5	499.4	446.9	396.8	353.2	318.2
135°	615.8	612.0	600.5	579.4	551.4	515.1	474.3	430.3	389.5	353.2	324.5
137.5°	575.7	571.4	560.8	541.8	516.6	485.8	451.8	416.3	383.0	353.9	330.2
140°	547.6	544.4	534.8	518.3	494.6	467.9	438.5	408.6	379.9	354.4	332.7
142.5°	521.5	518.9	509.9	495.9	475.8	452.6	427.4	402.0	377.4	355.0	334.3
145°	485.8	483.2	476.2	465.4	450.0	432.8	413.1	393.3	373.6	354.4	336.0
147.5°	455.4	454.3	450.2	441.5	429.4	416.4	401.2	385.1	369.6	352.8	336.6
150°	438.5	438.0	435.4	427.8	418.2	406.7	394.6	380.6	366.6	351.2	336.6
152.5°	425.3	424.7	422.2	416.0	408.0	399.1	388.0	375.4	363.0	349.2	336.1
155°	407.3	406.7	404.8	400.3	394.0	386.9	378.1	367.9	357.0	345.5	334.7
157.5°	391.3	391.4	389.6	386.0	381.0	375.4	368.6	360.2	351.4	341.7	333.0
160°	380.6	381.2	379.9	376.7	372.3	367.9	361.4	355.1	346.8	339.2	331.5
162.5°	370.9	371.0	370.7	368.1	364.6	360.7	355.3	349.4	342.7	336.1	330.0
165°	357.0	357.0	357.0	355.7	353.2	350.0	346.2	341.7	336.6	331.5	327.7
167.5°	344.2	344.4	344.9	343.7	342.4	340.1	337.2	334.3	330.6	327.0	324.1
170°	336.6	337.2	337.2	336.6	335.3	334.0	332.2	330.2	327.0	324.5	322.5
172.5°	329.5	330.1	331.1	330.0	329.7	329.0	327.5	325.6	323.4	321.4	320.5
175°	320.7	321.3	322.5	322.0	322.0	322.0	320.7	320.7	318.7	318.1	318.1
177.5°	316.2	316.2	317.7	317.2	317.7	317.7	317.7	317.2	316.7	316.2	316.2
180°	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1333.9	1330.8	1327.3	1321.1	1313.6	1309.7	1303.5	1299.6	1291.6	1285.0	1278.0
5°	1401.6	1387.3	1374.1	1357.0	1338.3	1326.2	1311.9	1295.9	1279.4	1262.3	1243.7
7.5°	1471.7	1446.3	1418.9	1389.3	1360.3	1333.7	1308.2	1283.3	1260.0	1231.8	1207.9
10°	1518.8	1486.9	1452.8	1412.6	1373.5	1339.4	1304.7	1274.5	1243.7	1210.6	1181.5
12.5°	1565.9	1523.4	1475.2	1431.1	1384.1	1342.9	1302.1	1263.5	1224.7	1188.2	1154.1
15°	1599.1	1561.7	1517.1	1454.4	1401.6	1344.9	1290.9	1240.9	1194.1	1153.4	1110.5
17.5°	1621.1	1572.8	1524.9	1464.8	1395.5	1332.1	1271.1	1213.7	1161.0	1109.4	1068.0
20°	1625.0	1575.5	1525.4	1466.5	1395.5	1322.9	1261.8	1193.0	1136.4	1083.0	1032.3
22.5°	1623.7	1567.6	1513.0	1452.5	1383.2	1316.3	1242.4	1172.3	1110.8	1058.3	1005.5
25°	1611.3	1551.3	1483.0	1422.0	1353.7	1282.7	1207.9	1135.2	1072.5	1012.5	960.3
27.5°	1600.9	1523.1	1445.9	1374.6	1308.7	1243.7	1172.0	1097.6	1028.0	967.3	918.0
30°	1588.1	1502.8	1415.8	1341.6	1273.9	1210.6	1143.0	1070.3	997.7	938.2	885.4
32.5°	1576.7	1477.3	1385.5	1304.6	1233.0	1171.4	1109.1	1039.9	968.6	908.3	855.5
35°	1554.5	1439.6	1334.5	1243.1	1166.6	1103.3	1051.1	986.7	921.2	862.8	812.2
37.5°	1526.5	1390.0	1277.2	1181.5	1097.6	1030.9	982.3	932.9	870.0	813.8	768.0
40°	1504.5	1354.8	1235.4	1137.4	1050.5	981.1	936.0	889.2	837.0	784.7	736.3
42.5°	1476.8	1323.1	1193.1	1087.7	1001.6	934.1	886.7	847.0	800.9	752.1	707.2
45°	1425.8	1265.7	1124.8	1011.5	924.5	857.9	808.9	779.2	744.5	698.3	660.3
47.5°	1350.9	1196.6	1050.9	933.9	844.2	782.5	736.6	708.1	683.7	649.3	614.9
50°	1284.3	1145.2	997.7	881.6	791.9	729.7	687.3	661.5	640.5	614.1	585.0
52.5°	1210.0	1080.4	945.3	830.5	741.7	680.4	638.9	616.1	598.7	579.8	551.1
55°	1091.8	981.7	856.2	747.3	665.3	605.3	569.0	549.2	534.9	520.6	503.0
57.5°	961.6	875.5	764.3	664.7	589.2	534.7	500.8	481.5	470.3	463.0	452.7
60°	870.0	796.3	700.5	609.7	536.0	487.5	454.5	439.7	430.3	424.3	416.5
62.5°	785.1	724.5	635.8	552.9	488.4	442.6	413.2	398.8	389.8	386.9	380.5
65°	659.8	613.0	539.8	471.1	416.0	376.9	352.2	338.4	332.9	329.6	330.2
67.5°	536.4	507.9	449.1	390.4	346.6	313.8	294.0	283.4	280.6	276.2	276.1
70°	461.1	439.7	390.1	339.0	299.9	274.6	257.0	246.0	243.2	241.0	240.5
72.5°	394.7	375.9	332.9	291.9	256.7	234.6	220.0	213.4	208.9	207.6	207.5
75°	296.6	286.2	252.0	219.6	195.3	179.9	170.1	164.0	160.7	160.1	160.7
77.5°	210.8	201.7	180.0	157.0	141.8	130.1	121.7	119.6	115.9	116.0	115.4
80°	158.5	152.5	138.7	120.5	107.9	97.9	93.5	89.7	88.6	86.9	88.6
82.5°	114.9	108.4	99.1	87.5	77.0	71.1	66.7	65.5	64.8	64.1	64.4
85°	56.7	57.2	51.7	42.9	38.5	35.2	32.4	32.4	31.9	31.4	31.9
87.5°	21.0	19.9	18.0	16.4	13.9	12.4	11.7	12.0	10.8	10.6	11.3
90°	8.3	7.0	6.4	5.1	3.8	2.5	1.3	0.7	1.3	2.5	3.8
92.5°	145.4	87.1	52.3	33.7	22.7	14.8	9.5	7.7	9.5	14.8	22.7
95°	284.9	144.7	76.5	47.8	33.8	26.7	21.7	21.0	21.7	26.7	33.8
97.5°	227.5	124.7	79.6	58.9	46.3	39.3	35.7	34.9	35.7	39.3	46.3
100°	206.5	123.7	86.7	67.6	55.4	48.4	45.9	44.6	45.9	48.4	55.4
102.5°	197.9	128.2	95.4	76.7	65.6	58.1	56.1	55.4	56.1	58.1	65.6
105°	194.4	137.7	109.7	91.8	81.6	75.3	72.1	72.1	72.1	75.3	81.6
107.5°	200.3	151.7	124.6	108.5	97.9	92.7	89.6	88.4	89.6	92.7	97.9
110°	205.9	161.9	135.7	119.2	109.7	103.9	101.3	100.1	101.3	103.9	109.7



TEST NUMBER: P333270-930

CATALOG NUMBER: S125DIP-S1090D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	213.0	171.6	146.5	130.4	120.8	115.1	113.1	111.8	113.1	115.1	120.8
115°	223.7	186.8	163.2	147.2	137.7	132.0	130.0	128.7	130.0	132.0	137.7
117.5°	236.0	202.4	180.0	164.6	153.8	148.1	146.0	144.1	146.0	148.1	153.8
120°	244.2	213.5	191.3	175.3	164.4	158.7	156.2	154.3	156.2	158.7	164.4
122.5°	253.3	224.3	201.9	186.1	174.1	168.4	166.4	165.0	166.4	168.4	174.1
125°	265.8	238.4	217.4	200.8	188.7	183.0	179.8	178.5	179.8	183.0	188.7
127.5°	277.3	252.1	231.8	215.2	202.4	195.1	191.0	189.1	191.0	195.1	202.4
130°	284.9	260.7	241.0	224.4	211.0	202.7	197.6	195.7	197.6	202.7	211.0
132.5°	291.6	268.9	249.2	232.5	218.7	209.4	203.3	200.8	203.3	209.4	218.7
135°	300.9	279.9	260.1	242.9	229.5	219.3	211.7	209.1	211.7	219.3	229.5
137.5°	307.8	287.6	269.6	251.9	238.8	228.6	221.4	219.6	221.4	228.6	238.8
140°	312.3	293.3	274.8	257.6	245.4	235.2	227.6	225.7	227.6	235.2	245.4
142.5°	315.0	296.8	279.3	263.2	251.5	241.3	234.2	232.8	234.2	241.3	251.5
145°	318.7	302.8	286.3	271.6	260.1	251.2	244.8	243.5	244.8	251.2	260.1
147.5°	321.1	306.6	292.1	279.2	269.3	261.0	255.5	254.7	255.5	261.0	269.3
150°	322.5	309.2	295.1	284.3	275.4	267.1	262.6	261.4	262.6	267.1	275.4
152.5°	323.6	311.7	298.7	288.9	280.5	273.2	269.3	268.5	269.3	273.2	280.5
155°	324.5	314.3	303.5	294.5	288.1	281.8	277.9	277.9	277.9	281.8	288.1
157.5°	325.1	316.4	307.1	300.4	294.7	289.3	286.3	286.3	286.3	289.3	294.7
160°	325.1	317.5	309.2	303.5	298.3	293.9	291.3	292.0	291.3	293.9	298.3
162.5°	324.6	318.5	311.2	306.5	302.4	298.5	296.0	296.5	296.0	298.5	302.4
165°	323.8	318.7	313.6	309.8	307.3	304.1	302.1	303.5	302.1	304.1	307.3
167.5°	322.3	318.7	314.5	312.1	310.3	308.5	307.4	308.0	307.4	308.5	310.3
170°	321.3	318.7	315.5	313.6	312.3	311.1	310.5	311.1	310.5	311.1	312.3
172.5°	320.2	318.2	315.5	314.6	313.9	312.6	312.0	313.2	312.0	312.6	313.9
175°	318.7	317.5	315.5	315.5	315.5	315.0	314.3	315.5	314.3	315.0	315.5
177.5°	317.2	316.7	315.7	315.7	316.2	315.7	315.7	316.7	315.7	315.7	316.2
180°	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2



TEST NUMBER: P333270-930

CATALOG NUMBER: S125DIP-S1090D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1274.0	1269.2	1265.2	1256.4	1251.6	1245.0	1239.7	1245.4	1239.3	1241.9	1238.0
5°	1234.3	1218.9	1207.9	1191.9	1178.2	1165.5	1156.2	1154.5	1150.1	1147.9	1141.3
7.5°	1186.5	1167.3	1148.3	1127.4	1109.8	1091.8	1080.4	1071.0	1064.7	1056.5	1050.8
10°	1158.4	1132.5	1110.5	1085.2	1063.2	1043.9	1028.5	1020.8	1013.7	1003.1	999.3
12.5°	1123.6	1096.8	1070.0	1042.9	1021.7	1000.3	987.1	975.4	970.5	958.7	957.5
15°	1081.9	1041.7	1015.3	987.7	958.6	941.0	930.0	917.3	911.8	903.6	897.5
17.5°	1032.1	996.2	963.2	934.7	909.7	894.9	881.3	872.5	863.1	857.7	847.7
20°	996.1	961.9	928.9	898.6	879.4	862.3	851.3	843.0	833.2	830.4	820.5
22.5°	965.6	928.0	896.3	870.9	849.9	830.6	818.7	813.1	806.2	797.8	795.8
25°	916.2	877.2	850.2	824.9	806.2	788.6	780.3	773.1	766.5	760.5	758.3
27.5°	873.5	838.6	806.6	783.7	767.4	751.4	744.1	735.4	730.6	725.7	719.7
30°	843.6	807.8	779.8	757.7	740.1	725.9	718.1	712.1	707.7	703.3	699.9
32.5°	812.8	779.7	752.4	730.9	713.3	702.5	695.7	691.4	686.6	681.3	677.1
35°	772.1	735.7	709.3	690.6	676.9	668.6	660.9	657.0	651.5	651.5	647.1
37.5°	726.2	694.8	671.5	654.4	642.0	634.7	626.3	623.7	620.2	617.8	616.3
40°	698.9	669.7	647.7	630.6	617.4	611.4	604.8	600.4	598.2	595.4	594.3
42.5°	670.7	642.9	621.7	606.0	594.5	589.4	583.2	580.1	575.7	572.1	571.4
45°	627.9	600.9	581.6	569.0	559.1	553.0	549.2	542.6	540.4	536.0	535.4
47.5°	587.3	561.4	542.5	532.1	523.4	518.4	512.4	505.8	503.3	501.1	500.8
50°	556.9	533.2	515.6	505.7	497.5	490.3	484.3	479.9	478.2	478.2	479.3
52.5°	526.1	505.9	491.0	478.8	471.1	463.4	457.9	455.2	452.7	455.3	457.3
55°	480.9	460.6	449.6	438.1	430.3	421.5	418.7	417.7	416.0	420.4	422.7
57.5°	433.2	418.9	406.0	394.5	387.6	382.5	378.8	378.1	381.2	383.4	390.4
60°	402.8	386.3	374.7	365.9	357.7	354.4	353.3	352.2	354.4	360.4	369.8
62.5°	369.3	356.0	343.5	336.9	330.8	325.3	325.1	325.8	330.2	337.1	346.4
65°	320.2	308.7	300.4	292.8	287.8	284.5	285.6	287.8	292.8	302.1	312.6
67.5°	270.4	262.5	255.1	248.8	244.1	244.1	245.2	248.5	254.4	265.1	274.7
70°	238.3	229.5	223.4	220.7	216.8	214.6	217.9	223.4	228.4	238.3	246.5
72.5°	206.1	198.7	194.0	192.1	190.4	188.7	189.7	195.7	202.4	212.3	221.8
75°	158.5	155.7	152.5	150.3	148.5	149.7	150.7	156.3	161.8	172.3	183.3
77.5°	115.7	112.8	110.8	110.3	109.4	110.0	113.0	117.1	122.5	130.1	138.4
80°	87.5	86.4	85.3	84.7	84.7	85.3	89.7	92.5	97.4	104.5	111.1
82.5°	63.8	63.0	62.9	62.7	63.2	63.3	66.0	69.5	73.6	79.0	84.7
85°	33.6	32.4	34.1	34.7	33.6	35.2	36.3	38.5	40.2	42.9	45.7
87.5°	12.1	13.1	12.9	13.5	13.7	14.8	14.5	16.4	17.4	18.4	18.2
90°	5.1	6.4	7.0	8.3	8.9	10.2	10.8	11.5	12.1	12.7	14.0
92.5°	33.7	52.3	87.1	145.4	208.8	205.5	166.4	113.0	82.0	61.7	52.3
95°	47.8	76.5	144.7	284.9	460.9	564.8	552.7	458.4	361.4	283.1	229.5
97.5°	58.9	79.6	124.7	227.5	411.6	603.2	699.3	682.7	614.7	538.3	463.8
100°	67.6	86.7	123.7	206.5	367.2	575.7	735.0	784.1	752.8	687.2	620.9
102.5°	76.7	95.4	128.2	197.9	333.5	527.2	713.6	818.2	837.6	806.0	761.2
105°	91.8	109.7	137.7	194.4	300.9	462.2	645.1	798.1	885.5	913.5	906.5
107.5°	108.5	124.6	151.7	200.3	287.1	417.4	575.3	726.2	842.8	914.8	948.0
110°	119.2	135.7	161.9	205.9	283.1	396.5	535.5	673.2	794.3	884.2	938.3



TEST NUMBER: P333270-930

CATALOG NUMBER: S125DIP-S1090D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	130.4	146.5	171.6	213.0	283.1	384.3	505.9	631.4	746.3	837.2	901.2
115°	147.2	163.2	186.8	223.7	284.9	371.0	473.6	578.9	677.7	765.0	834.5
117.5°	164.6	180.0	202.4	236.0	289.2	364.5	454.4	544.9	630.1	705.3	769.1
120°	175.3	191.3	213.5	244.2	293.3	361.4	443.7	526.5	603.1	673.2	729.3
122.5°	186.1	201.9	224.3	253.3	296.8	358.9	434.5	512.8	583.7	646.1	698.7
125°	200.8	217.4	238.4	265.8	302.8	355.7	422.0	492.8	557.8	613.3	659.2
127.5°	215.2	231.8	252.1	277.3	309.6	354.2	410.5	472.4	533.0	584.8	627.8
130°	224.4	241.0	260.7	284.9	313.6	353.2	402.9	459.6	515.8	565.4	606.9
132.5°	232.5	249.2	268.9	291.6	318.2	353.2	396.8	446.9	499.4	544.5	584.4
135°	242.9	260.1	279.9	300.9	324.5	353.2	389.5	430.3	474.3	515.1	551.4
137.5°	251.9	269.6	287.6	307.8	330.2	353.9	383.0	416.3	451.8	485.8	516.6
140°	257.6	274.8	293.3	312.3	332.7	354.4	379.9	408.6	438.5	467.9	494.6
142.5°	263.2	279.3	296.8	315.0	334.3	355.0	377.4	402.0	427.4	452.6	475.8
145°	271.6	286.3	302.8	318.7	336.0	354.4	373.6	393.3	413.1	432.8	450.0
147.5°	279.2	292.1	306.6	321.1	336.6	352.8	369.6	385.1	401.2	416.4	429.4
150°	284.3	295.1	309.2	322.5	336.6	351.2	366.6	380.6	394.6	406.7	418.2
152.5°	288.9	298.7	311.7	323.6	336.1	349.2	363.0	375.4	388.0	399.1	408.0
155°	294.5	303.5	314.3	324.5	334.7	345.5	357.0	367.9	378.1	386.9	394.0
157.5°	300.4	307.1	316.4	325.1	333.0	341.7	351.4	360.2	368.6	375.4	381.0
160°	303.5	309.2	317.5	325.1	331.5	339.2	346.8	355.1	361.4	367.9	372.3
162.5°	306.5	311.2	318.5	324.6	330.0	336.1	342.7	349.4	355.3	360.7	364.6
165°	309.8	313.6	318.7	323.8	327.7	331.5	336.6	341.7	346.2	350.0	353.2
167.5°	312.1	314.5	318.7	322.3	324.1	327.0	330.6	334.3	337.2	340.1	342.4
170°	313.6	315.5	318.7	321.3	322.5	324.5	327.0	330.2	332.2	334.0	335.3
172.5°	314.6	315.5	318.2	320.2	320.5	321.4	323.4	325.6	327.5	329.0	329.7
175°	315.5	315.5	317.5	318.7	318.1	318.1	318.7	320.7	320.7	322.0	322.0
177.5°	315.7	315.7	316.7	317.2	316.2	316.2	316.7	317.2	317.7	317.7	317.7
180°	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2



TEST NUMBER: P333270-930
 CATALOG NUMBER: S125DIP-S1090D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1235.3	1238.4	1235.7	1239.3	1235.7	1238.4	1235.3	1238.0	1241.9	1239.3	1245.4
5°	1138.6	1133.6	1136.9	1134.7	1136.9	1133.6	1138.6	1141.3	1147.9	1150.1	1154.5
7.5°	1049.2	1044.5	1039.0	1036.5	1039.0	1044.5	1049.2	1050.8	1056.5	1064.7	1071.0
10°	993.3	987.2	986.7	982.8	986.7	987.2	993.3	999.3	1003.1	1013.7	1020.8
12.5°	952.4	946.7	940.4	938.8	940.4	946.7	952.4	957.5	958.7	970.5	975.4
15°	894.2	889.8	886.0	889.2	886.0	889.8	894.2	897.5	903.6	911.8	917.3
17.5°	845.9	842.3	841.6	837.6	841.6	842.3	845.9	847.7	857.7	863.1	872.5
20°	815.5	812.8	813.9	806.7	813.9	812.8	815.5	820.5	830.4	833.2	843.0
22.5°	791.3	785.9	785.3	783.8	785.3	785.9	791.3	795.8	797.8	806.2	813.1
25°	753.3	750.6	747.9	750.6	747.9	750.6	753.3	758.3	760.5	766.5	773.1
27.5°	720.2	716.9	716.2	716.5	716.2	716.9	720.2	719.7	725.7	730.6	735.4
30°	699.9	694.5	695.0	694.5	695.0	694.5	699.9	699.9	703.3	707.7	712.1
32.5°	677.9	674.2	673.4	672.5	673.4	674.2	677.9	677.1	681.3	686.6	691.4
35°	645.5	645.5	642.7	642.7	642.7	645.5	645.5	647.1	651.5	651.5	657.0
37.5°	615.0	614.4	612.8	613.0	612.8	614.4	615.0	616.3	617.8	620.2	623.7
40°	592.1	591.6	589.9	586.6	589.9	591.6	592.1	594.3	595.4	598.2	600.4
42.5°	570.1	568.3	567.4	566.4	567.4	568.3	570.1	571.4	572.1	575.7	580.1
45°	535.4	535.4	534.3	533.8	534.3	535.4	535.4	535.4	536.0	540.4	542.6
47.5°	501.7	502.7	504.8	504.5	504.8	502.7	501.7	500.8	501.1	503.3	505.8
50°	481.5	482.1	483.7	484.3	483.7	482.1	481.5	479.3	478.2	478.2	479.9
52.5°	459.0	462.3	464.3	464.0	464.3	462.3	459.0	457.3	455.3	452.7	455.2
55°	427.5	431.5	435.3	435.9	435.3	431.5	427.5	422.7	420.4	416.0	417.7
57.5°	396.4	401.8	405.9	407.2	405.9	401.8	396.4	390.4	383.4	381.2	378.1
60°	375.3	382.5	387.4	389.6	387.4	382.5	375.3	369.8	360.4	354.4	352.2
62.5°	355.1	363.1	368.0	368.4	368.0	363.1	355.1	346.4	337.1	330.2	325.8
65°	321.9	330.2	334.6	337.9	334.6	330.2	321.9	312.6	302.1	292.8	287.8
67.5°	286.3	294.5	299.4	302.0	299.4	294.5	286.3	274.7	265.1	254.4	248.5
70°	260.3	268.6	275.2	277.4	275.2	268.6	260.3	246.5	238.3	228.4	223.4
72.5°	234.7	242.1	247.4	250.1	247.4	242.1	234.7	221.8	212.3	202.4	195.7
75°	190.4	200.3	205.3	208.0	205.3	200.3	190.4	183.3	172.3	161.8	156.3
77.5°	146.8	155.8	158.8	160.2	158.8	155.8	146.8	138.4	130.1	122.5	117.1
80°	117.7	123.3	127.1	127.7	127.1	123.3	117.7	111.1	104.5	97.4	92.5
82.5°	90.5	95.1	96.3	97.8	96.3	95.1	90.5	84.7	79.0	73.6	69.5
85°	49.5	51.7	52.3	51.7	52.3	51.7	49.5	45.7	42.9	40.2	38.5
87.5°	19.1	18.7	18.8	19.6	18.8	18.7	19.1	18.2	18.4	17.4	16.4
90°	14.0	14.0	14.7	14.7	14.7	14.0	14.0	14.0	12.7	12.1	11.5
92.5°	44.1	42.6	41.7	40.7	41.7	42.6	44.1	52.3	61.7	82.0	113.0
95°	184.3	165.1	160.0	149.8	160.0	165.1	184.3	229.5	283.1	361.4	458.4
97.5°	424.4	388.7	370.2	362.1	370.2	388.7	424.4	463.8	538.3	614.7	682.7
100°	576.9	531.0	507.4	497.3	507.4	531.0	576.9	620.9	687.2	752.8	784.1
102.5°	714.1	681.4	655.8	648.2	655.8	681.4	714.1	761.2	806.0	837.6	818.2
105°	886.1	865.0	852.3	844.7	852.3	865.0	886.1	906.5	913.5	885.5	798.1
107.5°	958.4	958.2	954.1	948.9	954.1	958.2	958.4	948.0	914.8	842.8	726.2
110°	967.0	979.2	983.7	983.7	983.7	979.2	967.0	938.3	884.2	794.3	673.2



TEST NUMBER: P333270-930

CATALOG NUMBER: S125DIP-S1090D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	943.1	963.8	974.9	979.6	974.9	963.8	943.1	901.2	837.2	746.3	631.4
115°	884.2	914.8	932.6	940.9	932.6	914.8	884.2	834.5	765.0	677.7	578.9
117.5°	818.8	850.4	868.1	873.2	868.1	850.4	818.8	769.1	705.3	630.1	544.9
120°	776.4	807.1	824.3	829.3	824.3	807.1	776.4	729.3	673.2	603.1	526.5
122.5°	740.8	768.8	786.0	790.6	786.0	768.8	740.8	698.7	646.1	583.7	512.8
125°	694.9	721.0	735.0	741.4	735.0	721.0	694.9	659.2	613.3	557.8	492.8
127.5°	660.1	683.2	696.5	699.3	696.5	683.2	660.1	627.8	584.8	533.0	472.4
130°	638.8	659.8	672.5	676.4	672.5	659.8	638.8	606.9	565.4	515.8	459.6
132.5°	616.3	637.3	649.1	653.4	649.1	637.3	616.3	584.4	544.5	499.4	446.9
135°	579.4	600.5	612.0	615.8	612.0	600.5	579.4	551.4	515.1	474.3	430.3
137.5°	541.8	560.8	571.4	575.7	571.4	560.8	541.8	516.6	485.8	451.8	416.3
140°	518.3	534.8	544.4	547.6	544.4	534.8	518.3	494.6	467.9	438.5	408.6
142.5°	495.9	509.9	518.9	521.5	518.9	509.9	495.9	475.8	452.6	427.4	402.0
145°	465.4	476.2	483.2	485.8	483.2	476.2	465.4	450.0	432.8	413.1	393.3
147.5°	441.5	450.2	454.3	455.4	454.3	450.2	441.5	429.4	416.4	401.2	385.1
150°	427.8	435.4	438.0	438.5	438.0	435.4	427.8	418.2	406.7	394.6	380.6
152.5°	416.0	422.2	424.7	425.3	424.7	422.2	416.0	408.0	399.1	388.0	375.4
155°	400.3	404.8	406.7	407.3	406.7	404.8	400.3	394.0	386.9	378.1	367.9
157.5°	386.0	389.6	391.4	391.3	391.4	389.6	386.0	381.0	375.4	368.6	360.2
160°	376.7	379.9	381.2	380.6	381.2	379.9	376.7	372.3	367.9	361.4	355.1
162.5°	368.1	370.7	371.0	370.9	371.0	370.7	368.1	364.6	360.7	355.3	349.4
165°	355.7	357.0	357.0	357.0	357.0	357.0	355.7	353.2	350.0	346.2	341.7
167.5°	343.7	344.9	344.4	344.2	344.4	344.9	343.7	342.4	340.1	337.2	334.3
170°	336.6	337.2	337.2	336.6	337.2	337.2	336.6	335.3	334.0	332.2	330.2
172.5°	330.0	331.1	330.1	329.5	330.1	331.1	330.0	329.7	329.0	327.5	325.6
175°	322.0	322.5	321.3	320.7	321.3	322.5	322.0	322.0	322.0	320.7	320.7
177.5°	317.2	317.7	316.2	316.2	316.2	317.7	317.2	317.7	317.7	317.7	317.2
180°	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2



TEST NUMBER: P333270-930

CATALOG NUMBER: S125DIP-S1090D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1239.7	1245.0	1251.6	1256.4	1265.2	1269.2	1274.0	1278.0	1285.0	1291.6	1299.6
5°	1156.2	1165.5	1178.2	1191.9	1207.9	1218.9	1234.3	1243.7	1262.3	1279.4	1295.9
7.5°	1080.4	1091.8	1109.8	1127.4	1148.3	1167.3	1186.5	1207.9	1231.8	1260.0	1283.3
10°	1028.5	1043.9	1063.2	1085.2	1110.5	1132.5	1158.4	1181.5	1210.6	1243.7	1274.5
12.5°	987.1	1000.3	1021.7	1042.9	1070.0	1096.8	1123.6	1154.1	1188.2	1224.7	1263.5
15°	930.0	941.0	958.6	987.7	1015.3	1041.7	1081.9	1110.5	1153.4	1194.1	1240.9
17.5°	881.3	894.9	909.7	934.7	963.2	996.2	1032.1	1068.0	1109.4	1161.0	1213.7
20°	851.3	862.3	879.4	898.6	928.9	961.9	996.1	1032.3	1083.0	1136.4	1193.0
22.5°	818.7	830.6	849.9	870.9	896.3	928.0	965.6	1005.5	1058.3	1110.8	1172.3
25°	780.3	788.6	806.2	824.9	850.2	877.2	916.2	960.3	1012.5	1072.5	1135.2
27.5°	744.1	751.4	767.4	783.7	806.6	838.6	873.5	918.0	967.3	1028.0	1097.6
30°	718.1	725.9	740.1	757.7	779.8	807.8	843.6	885.4	938.2	997.7	1070.3
32.5°	695.7	702.5	713.3	730.9	752.4	779.7	812.8	855.5	908.3	968.6	1039.9
35°	660.9	668.6	676.9	690.6	709.3	735.7	772.1	812.2	862.8	921.2	986.7
37.5°	626.3	634.7	642.0	654.4	671.5	694.8	726.2	768.0	813.8	870.0	932.9
40°	604.8	611.4	617.4	630.6	647.7	669.7	698.9	736.3	784.7	837.0	889.2
42.5°	583.2	589.4	594.5	606.0	621.7	642.9	670.7	707.2	752.1	800.9	847.0
45°	549.2	553.0	559.1	569.0	581.6	600.9	627.9	660.3	698.3	744.5	779.2
47.5°	512.4	518.4	523.4	532.1	542.5	561.4	587.3	614.9	649.3	683.7	708.1
50°	484.3	490.3	497.5	505.7	515.6	533.2	556.9	585.0	614.1	640.5	661.5
52.5°	457.9	463.4	471.1	478.8	491.0	505.9	526.1	551.1	579.8	598.7	616.1
55°	418.7	421.5	430.3	438.1	449.6	460.6	480.9	503.0	520.6	534.9	549.2
57.5°	378.8	382.5	387.6	394.5	406.0	418.9	433.2	452.7	463.0	470.3	481.5
60°	353.3	354.4	357.7	365.9	374.7	386.3	402.8	416.5	424.3	430.3	439.7
62.5°	325.1	325.3	330.8	336.9	343.5	356.0	369.3	380.5	386.9	389.8	398.8
65°	285.6	284.5	287.8	292.8	300.4	308.7	320.2	330.2	329.6	332.9	338.4
67.5°	245.2	244.1	244.1	248.8	255.1	262.5	270.4	276.1	276.2	280.6	283.4
70°	217.9	214.6	216.8	220.7	223.4	229.5	238.3	240.5	241.0	243.2	246.0
72.5°	189.7	188.7	190.4	192.1	194.0	198.7	206.1	207.5	207.6	208.9	213.4
75°	150.7	149.7	148.5	150.3	152.5	155.7	158.5	160.7	160.1	160.7	164.0
77.5°	113.0	110.0	109.4	110.3	110.8	112.8	115.7	115.4	116.0	115.9	119.6
80°	89.7	85.3	84.7	84.7	85.3	86.4	87.5	88.6	86.9	88.6	89.7
82.5°	66.0	63.3	63.2	62.7	62.9	63.0	63.8	64.4	64.1	64.8	65.5
85°	36.3	35.2	33.6	34.7	34.1	32.4	33.6	31.9	31.4	31.9	32.4
87.5°	14.5	14.8	13.7	13.5	12.9	13.1	12.1	11.3	10.6	10.8	12.0
90°	10.8	10.2	8.9	8.3	7.0	6.4	5.1	3.8	2.5	1.3	0.7
92.5°	166.4	205.5	208.8	145.4	87.1	52.3	33.7	22.7	14.8	9.5	7.7
95°	552.7	564.8	460.9	284.9	144.7	76.5	47.8	33.8	26.7	21.7	21.0
97.5°	699.3	603.2	411.6	227.5	124.7	79.6	58.9	46.3	39.3	35.7	34.9
100°	735.0	575.7	367.2	206.5	123.7	86.7	67.6	55.4	48.4	45.9	44.6
102.5°	713.6	527.2	333.5	197.9	128.2	95.4	76.7	65.6	58.1	56.1	55.4
105°	645.1	462.2	300.9	194.4	137.7	109.7	91.8	81.6	75.3	72.1	72.1
107.5°	575.3	417.4	287.1	200.3	151.7	124.6	108.5	97.9	92.7	89.6	88.4
110°	535.5	396.5	283.1	205.9	161.9	135.7	119.2	109.7	103.9	101.3	100.1



TEST NUMBER: P333270-930

CATALOG NUMBER: S125DIP-S1090D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	505.9	384.3	283.1	213.0	171.6	146.5	130.4	120.8	115.1	113.1	111.8
115°	473.6	371.0	284.9	223.7	186.8	163.2	147.2	137.7	132.0	130.0	128.7
117.5°	454.4	364.5	289.2	236.0	202.4	180.0	164.6	153.8	148.1	146.0	144.1
120°	443.7	361.4	293.3	244.2	213.5	191.3	175.3	164.4	158.7	156.2	154.3
122.5°	434.5	358.9	296.8	253.3	224.3	201.9	186.1	174.1	168.4	166.4	165.0
125°	422.0	355.7	302.8	265.8	238.4	217.4	200.8	188.7	183.0	179.8	178.5
127.5°	410.5	354.2	309.6	277.3	252.1	231.8	215.2	202.4	195.1	191.0	189.1
130°	402.9	353.2	313.6	284.9	260.7	241.0	224.4	211.0	202.7	197.6	195.7
132.5°	396.8	353.2	318.2	291.6	268.9	249.2	232.5	218.7	209.4	203.3	200.8
135°	389.5	353.2	324.5	300.9	279.9	260.1	242.9	229.5	219.3	211.7	209.1
137.5°	383.0	353.9	330.2	307.8	287.6	269.6	251.9	238.8	228.6	221.4	219.6
140°	379.9	354.4	332.7	312.3	293.3	274.8	257.6	245.4	235.2	227.6	225.7
142.5°	377.4	355.0	334.3	315.0	296.8	279.3	263.2	251.5	241.3	234.2	232.8
145°	373.6	354.4	336.0	318.7	302.8	286.3	271.6	260.1	251.2	244.8	243.5
147.5°	369.6	352.8	336.6	321.1	306.6	292.1	279.2	269.3	261.0	255.5	254.7
150°	366.6	351.2	336.6	322.5	309.2	295.1	284.3	275.4	267.1	262.6	261.4
152.5°	363.0	349.2	336.1	323.6	311.7	298.7	288.9	280.5	273.2	269.3	268.5
155°	357.0	345.5	334.7	324.5	314.3	303.5	294.5	288.1	281.8	277.9	277.9
157.5°	351.4	341.7	333.0	325.1	316.4	307.1	300.4	294.7	289.3	286.3	286.3
160°	346.8	339.2	331.5	325.1	317.5	309.2	303.5	298.3	293.9	291.3	292.0
162.5°	342.7	336.1	330.0	324.6	318.5	311.2	306.5	302.4	298.5	296.0	296.5
165°	336.6	331.5	327.7	323.8	318.7	313.6	309.8	307.3	304.1	302.1	303.5
167.5°	330.6	327.0	324.1	322.3	318.7	314.5	312.1	310.3	308.5	307.4	308.0
170°	327.0	324.5	322.5	321.3	318.7	315.5	313.6	312.3	311.1	310.5	311.1
172.5°	323.4	321.4	320.5	320.2	318.2	315.5	314.6	313.9	312.6	312.0	313.2
175°	318.7	318.1	318.1	318.7	317.5	315.5	315.5	315.5	315.0	314.3	315.5
177.5°	316.7	316.2	316.2	317.2	316.7	315.7	315.7	316.2	315.7	315.7	316.7
180°	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2



TEST NUMBER: P333270-930

CATALOG NUMBER: S125DIP-S1090D810U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1303.5	1309.7	1313.6	1321.1	1327.3	1330.8	1333.9	1336.5	1339.6	1342.2	1349.7
5°	1311.9	1326.2	1338.3	1357.0	1374.1	1387.3	1401.6	1414.2	1424.7	1439.6	1451.1
7.5°	1308.2	1333.7	1360.3	1389.3	1418.9	1446.3	1471.7	1495.3	1516.8	1542.8	1565.5
10°	1304.7	1339.4	1373.5	1412.6	1452.8	1486.9	1518.8	1551.3	1574.9	1607.9	1636.0
12.5°	1302.1	1342.9	1384.1	1431.1	1475.2	1523.4	1565.9	1589.6	1625.5	1652.0	1685.3
15°	1290.9	1344.9	1401.6	1454.4	1517.1	1561.7	1599.1	1645.4	1678.9	1712.5	1748.8
17.5°	1271.1	1332.1	1395.5	1464.8	1524.9	1572.8	1621.1	1665.6	1705.7	1750.7	1795.9
20°	1261.8	1322.9	1395.5	1466.5	1525.4	1575.5	1625.0	1674.0	1718.0	1775.8	1828.1
22.5°	1242.4	1316.3	1383.2	1452.5	1513.0	1567.6	1623.7	1679.3	1737.8	1803.0	1868.6
25°	1207.9	1282.7	1353.7	1422.0	1483.0	1551.3	1611.3	1685.5	1760.4	1846.7	1928.2
27.5°	1172.0	1243.7	1308.7	1374.6	1445.9	1523.1	1600.9	1685.2	1783.1	1892.2	2007.1
30°	1143.0	1210.6	1273.9	1341.6	1415.8	1502.8	1588.1	1688.2	1801.6	1924.4	2060.8
32.5°	1109.1	1171.4	1233.0	1304.6	1385.5	1477.3	1576.7	1686.5	1822.8	1962.2	2102.7
35°	1051.1	1103.3	1166.6	1243.1	1334.5	1439.6	1554.5	1684.4	1840.7	2000.8	2119.1
37.5°	982.3	1030.9	1097.6	1181.5	1277.2	1390.0	1526.5	1680.6	1846.6	1974.2	2012.4
40°	936.0	981.1	1050.5	1137.4	1235.4	1354.8	1504.5	1667.4	1828.1	1909.5	1878.1
42.5°	886.7	934.1	1001.6	1087.7	1193.1	1323.1	1476.8	1639.6	1774.3	1805.2	1696.7
45°	808.9	857.9	924.5	1011.5	1124.8	1265.7	1425.8	1573.9	1651.4	1595.9	1428.0
47.5°	736.6	782.5	844.2	933.9	1050.9	1196.6	1350.9	1468.9	1475.1	1342.5	1163.2
50°	687.3	729.7	791.9	881.6	997.7	1145.2	1284.3	1377.4	1335.5	1185.3	1013.1
52.5°	638.9	680.4	741.7	830.5	945.3	1080.4	1210.0	1275.2	1196.5	1042.3	895.1
55°	569.0	605.3	665.3	747.3	856.2	981.7	1091.8	1114.4	1011.9	860.1	740.7
57.5°	500.8	534.7	589.2	664.7	764.3	875.5	961.6	956.8	848.6	718.2	623.5
60°	454.5	487.5	536.0	609.7	700.5	796.3	870.0	852.4	745.1	632.8	553.0
62.5°	413.2	442.6	488.4	552.9	635.8	724.5	785.1	759.0	654.0	555.8	492.8
65°	352.2	376.9	416.0	471.1	539.8	613.0	659.8	626.2	536.5	460.1	409.4
67.5°	294.0	313.8	346.6	390.4	449.1	507.9	536.4	502.6	430.9	375.0	337.5
70°	257.0	274.6	299.9	339.0	390.1	439.7	461.1	430.9	369.2	321.4	294.4
72.5°	220.0	234.6	256.7	291.9	332.9	375.9	394.7	365.7	315.1	274.7	249.5
75°	170.1	179.9	195.3	219.6	252.0	286.2	296.6	271.3	238.8	208.6	192.1
77.5°	121.7	130.1	141.8	157.0	180.0	201.7	210.8	196.2	171.1	152.0	138.4
80°	93.5	97.9	107.9	120.5	138.7	152.5	158.5	149.1	131.5	117.2	106.7
82.5°	66.7	71.1	77.0	87.5	99.1	108.4	114.9	108.6	95.9	84.6	78.6
85°	32.4	35.2	38.5	42.9	51.7	57.2	56.7	52.8	47.9	43.5	40.2
87.5°	11.7	12.4	13.9	16.4	18.0	19.9	21.0	20.3	18.8	17.6	16.4
90°	1.3	2.5	3.8	5.1	6.4	7.0	8.3	8.9	10.2	10.8	11.5
92.5°	9.5	14.8	22.7	33.7	52.3	87.1	145.4	208.8	205.5	166.4	113.0
95°	21.7	26.7	33.8	47.8	76.5	144.7	284.9	460.9	564.8	552.7	458.4
97.5°	35.7	39.3	46.3	58.9	79.6	124.7	227.5	411.6	603.2	699.3	682.7
100°	45.9	48.4	55.4	67.6	86.7	123.7	206.5	367.2	575.7	735.0	784.1
102.5°	56.1	58.1	65.6	76.7	95.4	128.2	197.9	333.5	527.2	713.6	818.2
105°	72.1	75.3	81.6	91.8	109.7	137.7	194.4	300.9	462.2	645.1	798.1
107.5°	89.6	92.7	97.9	108.5	124.6	151.7	200.3	287.1	417.4	575.3	726.2
110°	101.3	103.9	109.7	119.2	135.7	161.9	205.9	283.1	396.5	535.5	673.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	113.1	115.1	120.8	130.4	146.5	171.6	213.0	283.1	384.3	505.9	631.4
115°	130.0	132.0	137.7	147.2	163.2	186.8	223.7	284.9	371.0	473.6	578.9
117.5°	146.0	148.1	153.8	164.6	180.0	202.4	236.0	289.2	364.5	454.4	544.9
120°	156.2	158.7	164.4	175.3	191.3	213.5	244.2	293.3	361.4	443.7	526.5
122.5°	166.4	168.4	174.1	186.1	201.9	224.3	253.3	296.8	358.9	434.5	512.8
125°	179.8	183.0	188.7	200.8	217.4	238.4	265.8	302.8	355.7	422.0	492.8
127.5°	191.0	195.1	202.4	215.2	231.8	252.1	277.3	309.6	354.2	410.5	472.4
130°	197.6	202.7	211.0	224.4	241.0	260.7	284.9	313.6	353.2	402.9	459.6
132.5°	203.3	209.4	218.7	232.5	249.2	268.9	291.6	318.2	353.2	396.8	446.9
135°	211.7	219.3	229.5	242.9	260.1	279.9	300.9	324.5	353.2	389.5	430.3
137.5°	221.4	228.6	238.8	251.9	269.6	287.6	307.8	330.2	353.9	383.0	416.3
140°	227.6	235.2	245.4	257.6	274.8	293.3	312.3	332.7	354.4	379.9	408.6
142.5°	234.2	241.3	251.5	263.2	279.3	296.8	315.0	334.3	355.0	377.4	402.0
145°	244.8	251.2	260.1	271.6	286.3	302.8	318.7	336.0	354.4	373.6	393.3
147.5°	255.5	261.0	269.3	279.2	292.1	306.6	321.1	336.6	352.8	369.6	385.1
150°	262.6	267.1	275.4	284.3	295.1	309.2	322.5	336.6	351.2	366.6	380.6
152.5°	269.3	273.2	280.5	288.9	298.7	311.7	323.6	336.1	349.2	363.0	375.4
155°	277.9	281.8	288.1	294.5	303.5	314.3	324.5	334.7	345.5	357.0	367.9
157.5°	286.3	289.3	294.7	300.4	307.1	316.4	325.1	333.0	341.7	351.4	360.2
160°	291.3	293.9	298.3	303.5	309.2	317.5	325.1	331.5	339.2	346.8	355.1
162.5°	296.0	298.5	302.4	306.5	311.2	318.5	324.6	330.0	336.1	342.7	349.4
165°	302.1	304.1	307.3	309.8	313.6	318.7	323.8	327.7	331.5	336.6	341.7
167.5°	307.4	308.5	310.3	312.1	314.5	318.7	322.3	324.1	327.0	330.6	334.3
170°	310.5	311.1	312.3	313.6	315.5	318.7	321.3	322.5	324.5	327.0	330.2
172.5°	312.0	312.6	313.9	314.6	315.5	318.2	320.2	320.5	321.4	323.4	325.6
175°	314.3	315.0	315.5	315.5	315.5	317.5	318.7	318.1	318.1	318.7	320.7
177.5°	315.7	315.7	316.2	315.7	315.7	316.7	317.2	316.2	316.2	316.7	317.2
180°	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
2.5°	1355.9	1359.4	1366.9	1364.2	1367.8	1369.5	1371.3
5°	1465.4	1483.0	1490.7	1489.6	1501.2	1498.4	1495.7
7.5°	1589.1	1607.6	1618.0	1630.8	1638.3	1638.8	1645.4
10°	1659.1	1683.3	1693.2	1707.0	1715.8	1720.8	1720.2
12.5°	1712.9	1731.8	1754.0	1760.7	1772.6	1778.8	1776.5
15°	1777.4	1807.7	1830.8	1842.3	1857.3	1861.7	1867.7
17.5°	1835.1	1875.7	1902.7	1938.5	1952.1	1960.3	1955.5
20°	1878.7	1932.1	1959.0	2002.0	2025.6	2038.2	2033.8
22.5°	1930.2	1987.9	2037.8	2075.0	2111.0	2128.1	2131.6
25°	2018.4	2097.7	2170.9	2219.9	2264.4	2274.8	2298.0
27.5°	2117.1	2210.5	2288.8	2340.2	2371.3	2383.0	2390.2
30°	2179.1	2272.2	2331.0	2364.0	2373.9	2372.8	2371.7
32.5°	2209.5	2267.8	2279.1	2269.8	2247.1	2228.0	2208.0
35°	2166.5	2123.0	2058.1	1974.4	1912.8	1850.6	1844.5
37.5°	1948.5	1809.5	1701.4	1580.6	1511.0	1467.9	1438.3
40°	1743.3	1585.3	1454.4	1352.6	1281.7	1253.5	1226.0
42.5°	1520.5	1369.7	1253.7	1168.6	1115.2	1084.1	1062.3
45°	1235.4	1102.2	1011.5	949.8	907.4	883.2	869.4
47.5°	1012.3	913.8	836.7	792.2	763.0	744.1	744.2
50°	892.6	798.5	747.3	712.1	686.7	671.9	674.7
52.5°	786.4	716.2	672.5	642.9	624.3	615.1	614.8
55°	657.6	607.0	578.4	556.9	544.2	533.8	536.0
57.5°	562.5	519.8	500.7	482.8	474.0	469.9	463.7
60°	503.5	470.5	454.0	439.7	430.9	427.5	421.5
62.5°	451.1	425.2	409.1	397.4	389.5	388.4	383.7
65°	379.1	359.3	345.0	339.5	331.3	329.1	329.1
67.5°	312.6	298.4	287.2	282.2	278.6	279.1	276.5
70°	270.8	259.2	252.0	246.5	243.8	244.3	242.1
72.5°	236.8	224.0	217.7	214.4	210.8	212.2	211.3
75°	179.4	172.8	169.5	166.2	164.0	162.9	161.8
77.5°	131.8	125.9	123.4	121.5	121.8	119.2	121.3
80°	101.8	96.9	95.2	92.5	91.9	91.9	91.3
82.5°	74.5	71.7	70.5	68.2	67.3	68.2	66.7
85°	38.5	36.3	35.8	35.8	34.7	33.6	36.3
87.5°	16.5	14.8	15.2	14.7	14.7	14.3	13.5
90°	12.1	12.7	14.0	14.0	14.0	14.7	14.7
92.5°	82.0	61.7	52.3	44.1	42.6	41.7	40.7
95°	361.4	283.1	229.5	184.3	165.1	160.0	149.8
97.5°	614.7	538.3	463.8	424.4	388.7	370.2	362.1
100°	752.8	687.2	620.9	576.9	531.0	507.4	497.3
102.5°	837.6	806.0	761.2	714.1	681.4	655.8	648.2
105°	885.5	913.5	906.5	886.1	865.0	852.3	844.7
107.5°	842.8	914.8	948.0	958.4	958.2	954.1	948.9
110°	794.3	884.2	938.3	967.0	979.2	983.7	983.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	746.3	837.2	901.2	943.1	963.8	974.9	979.6
115°	677.7	765.0	834.5	884.2	914.8	932.6	940.9
117.5°	630.1	705.3	769.1	818.8	850.4	868.1	873.2
120°	603.1	673.2	729.3	776.4	807.1	824.3	829.3
122.5°	583.7	646.1	698.7	740.8	768.8	786.0	790.6
125°	557.8	613.3	659.2	694.9	721.0	735.0	741.4
127.5°	533.0	584.8	627.8	660.1	683.2	696.5	699.3
130°	515.8	565.4	606.9	638.8	659.8	672.5	676.4
132.5°	499.4	544.5	584.4	616.3	637.3	649.1	653.4
135°	474.3	515.1	551.4	579.4	600.5	612.0	615.8
137.5°	451.8	485.8	516.6	541.8	560.8	571.4	575.7
140°	438.5	467.9	494.6	518.3	534.8	544.4	547.6
142.5°	427.4	452.6	475.8	495.9	509.9	518.9	521.5
145°	413.1	432.8	450.0	465.4	476.2	483.2	485.8
147.5°	401.2	416.4	429.4	441.5	450.2	454.3	455.4
150°	394.6	406.7	418.2	427.8	435.4	438.0	438.5
152.5°	388.0	399.1	408.0	416.0	422.2	424.7	425.3
155°	378.1	386.9	394.0	400.3	404.8	406.7	407.3
157.5°	368.6	375.4	381.0	386.0	389.6	391.4	391.3
160°	361.4	367.9	372.3	376.7	379.9	381.2	380.6
162.5°	355.3	360.7	364.6	368.1	370.7	371.0	370.9
165°	346.2	350.0	353.2	355.7	357.0	357.0	357.0
167.5°	337.2	340.1	342.4	343.7	344.9	344.4	344.2
170°	332.2	334.0	335.3	336.6	337.2	337.2	336.6
172.5°	327.5	329.0	329.7	330.0	331.1	330.1	329.5
175°	320.7	322.0	322.0	322.0	322.5	321.3	320.7
177.5°	317.7	317.7	317.7	317.2	317.7	316.2	316.2
180°	316.2	316.2	316.2	316.2	316.2	316.2	316.2

(END OF REPORT)