

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: P332000-830

Luminaire Tested: **S123DIP-S1000D365U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332000-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1000D365U830-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5364.0 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Direct

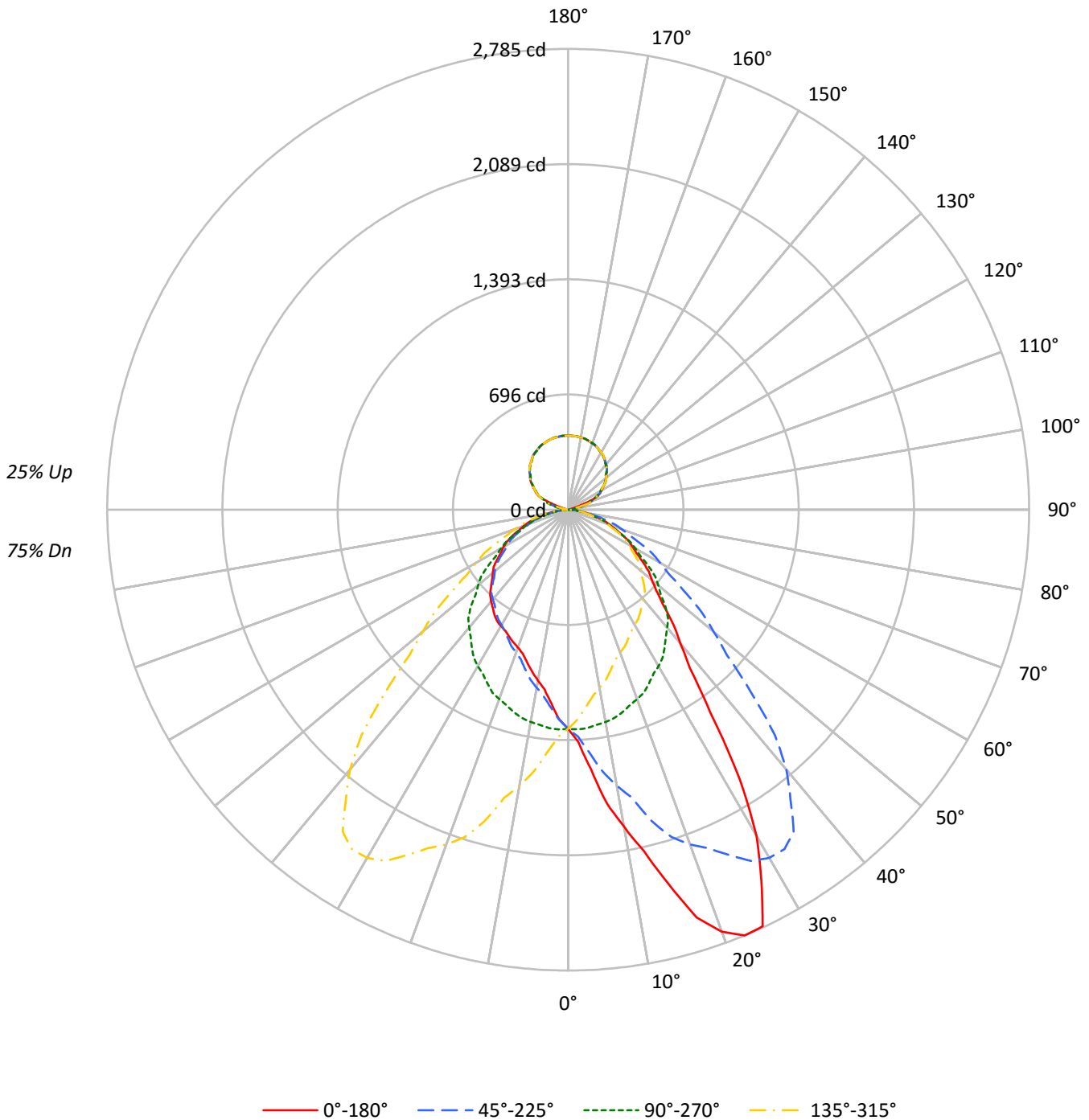
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75				75
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64				64
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	57	54				54
3	87	77	70	64	82	74	67	61	67	62	57	61	57	53	55	52	49	46				46
4	80	69	60	54	75	66	58	53	60	54	49	55	50	46	50	46	43	40				40
5	73	61	53	47	69	59	51	45	54	48	43	49	44	40	45	41	37	35				35
6	68	55	47	41	64	53	45	40	49	42	37	45	39	35	41	36	33	31				31
7	63	50	42	36	60	48	41	35	44	38	33	41	35	31	37	33	29	27				27
8	58	46	38	32	55	44	36	31	41	34	30	37	32	28	34	30	26	24				24
9	54	42	34	29	52	40	33	28	37	31	27	34	29	25	32	27	24	22				22
10	51	38	31	26	48	37	30	25	34	28	24	32	27	23	29	25	22	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14249	14249	14249	14249
5°	16993	14311	12682	14311
10°	21270	14238	11455	14238
15°	26088	14123	10664	14123
20°	31078	13945	10153	13945
25°	32999	13726	10041	13726
30°	28285	13569	10092	13569
35°	19671	13341	10198	13341
40°	14816	13078	10166	13078
45°	12301	12683	10036	12683
50°	11020	11879	9945	11879
55°	10303	11012	9822	11012
60°	9664	10107	9722	10107
65°	9085	9212	9411	9212
70°	8519	8195	8960	8195
75°	7627	7178	8218	7178
80°	6676	5883	7073	5883
85°	5224	4273	4755	4273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	2.4
10°-20°	418.2	7.8
20°-30°	701.8	13.1
30°-40°	794.6	14.8
40°-50°	712.6	13.3
50°-60°	575.1	10.7
60°-70°	400.7	7.5
70°-80°	210.6	3.9
80°-90°	52.8	1.0
90°-100°	16.3	0.3
100°-110°	77.7	1.4
110°-120°	186.6	3.5
120°-130°	237.6	4.4
130°-140°	253.9	4.7
140°-150°	237.4	4.4
150°-160°	191.5	3.6
160°-170°	123.6	2.3
170°-180°	42.6	0.8
0°-30°	1250.4	23.3
0°-40°	2045.0	38.1
0°-60°	3332.7	62.1
0°-90°	3996.8	74.5
90°-120°	280.6	5.2
90°-150°	1009.4	18.8
90°-180°	1367.0	25.5
0°-180°	5364.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1324	1324	1324	1324	1324	
5°	1573	1324	1174	1324	1573	163
15°	2341	1267	957	1267	2341	676
25°	2778	1156	845	1156	2778	1219
35°	1497	1015	776	1015	1497	973
45°	808	833	659	833	808	640
55°	549	587	523	587	549	493
65°	357	362	370	362	357	355
75°	183	173	198	173	183	196
85°	42	35	38	35	42	50
90°	10	0	10	0	10	7
95°	13	20	13	20	13	11
105°	15	99	15	99	15	33
115°	196	186	196	186	196	181
125°	268	262	268	262	268	239
135°	330	327	330	327	330	255
145°	381	377	381	377	381	238
155°	415	415	415	415	415	191
165°	437	438	437	438	437	123
175°	447	448	447	448	447	43
180°	448	448	448	448	448	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1404.9	1403.9	1401.3	1403.4	1399.3	1393.6	1393.1	1388.0	1373.1	1372.1	1368.0
5°	1572.7	1567.5	1566.9	1566.3	1557.3	1545.1	1522.0	1520.1	1489.3	1473.9	1455.3
7.5°	1790.0	1792.7	1783.3	1775.1	1747.7	1729.6	1704.8	1673.1	1635.3	1596.9	1571.4
10°	1946.0	1967.2	1940.9	1922.9	1906.2	1874.8	1838.2	1792.7	1747.2	1693.9	1653.5
12.5°	2113.3	2123.6	2118.4	2101.5	2075.6	2027.7	1962.9	1912.8	1870.9	1782.2	1746.3
15°	2341.1	2380.2	2355.2	2297.4	2298.8	2253.2	2168.5	2075.6	2026.2	1948.5	1842.8
17.5°	2583.8	2588.7	2578.0	2529.9	2497.8	2435.2	2357.1	2267.9	2167.9	2074.0	1961.8
20°	2713.1	2709.2	2686.8	2661.7	2606.6	2557.9	2472.6	2373.1	2244.9	2152.5	2030.0
22.5°	2784.9	2778.5	2767.9	2746.9	2701.0	2648.7	2572.1	2463.4	2341.4	2214.1	2072.6
25°	2778.5	2786.8	2788.1	2782.4	2766.4	2734.9	2674.6	2588.0	2466.2	2302.6	2155.1
27.5°	2527.1	2538.9	2573.1	2603.6	2637.5	2672.2	2667.6	2624.6	2534.4	2393.1	2212.8
30°	2275.7	2250.0	2313.5	2393.7	2448.2	2544.4	2598.3	2601.5	2550.8	2429.6	2253.8
32.5°	1926.7	1954.9	1983.0	2081.7	2200.8	2308.9	2416.1	2502.5	2512.3	2431.7	2277.9
35°	1497.0	1532.3	1583.6	1634.9	1763.2	1873.5	2062.1	2226.3	2357.1	2374.5	2280.1
37.5°	1206.4	1223.8	1256.2	1307.7	1391.6	1522.4	1668.3	1875.8	2065.4	2206.4	2212.5
40°	1054.4	1059.6	1096.2	1135.3	1203.2	1311.0	1442.5	1625.9	1852.9	2049.9	2132.0
42.5°	940.6	951.8	967.3	1004.9	1059.0	1140.1	1262.3	1414.0	1622.1	1848.7	2009.3
45°	808.1	821.0	830.6	855.6	894.1	948.6	1034.0	1172.4	1330.9	1565.0	1781.1
47.5°	720.7	721.7	728.9	747.7	773.9	814.8	875.2	964.1	1109.6	1299.5	1521.4
50°	658.1	668.4	670.9	685.6	706.2	736.3	786.4	862.0	981.4	1148.1	1352.1
52.5°	614.0	617.0	624.2	634.9	652.8	676.3	719.6	778.9	872.5	1014.6	1202.2
55°	549.0	549.0	556.1	564.4	574.7	595.9	624.7	668.4	739.5	849.9	1005.0
57.5°	489.0	492.2	497.2	499.7	508.5	522.5	546.6	579.7	632.8	717.7	841.1
60°	448.9	454.8	454.1	459.2	466.9	477.9	498.3	525.3	572.8	640.7	744.7
62.5°	414.1	413.7	413.6	419.7	427.4	437.8	451.2	474.5	514.8	575.0	663.5
65°	356.7	355.3	359.9	363.6	366.3	373.9	384.2	404.7	431.7	476.5	545.2
67.5°	305.6	301.8	304.3	305.6	309.9	315.9	325.6	338.3	359.7	395.8	447.4
70°	270.7	267.5	266.8	268.1	271.9	276.4	283.5	295.7	315.6	344.4	382.3
72.5°	234.8	232.5	232.4	235.3	237.0	240.0	245.0	256.2	271.9	293.6	328.9
75°	183.4	183.4	183.4	184.1	186.0	188.6	192.4	198.2	210.4	225.7	249.5
77.5°	137.5	137.4	136.6	136.5	139.3	140.4	141.4	146.8	153.5	163.9	181.3
80°	107.7	104.5	105.8	107.7	109.1	109.7	111.6	112.9	118.7	124.4	136.6
82.5°	80.0	77.4	77.6	80.6	80.8	81.4	83.4	85.2	87.4	92.7	99.2
85°	42.3	42.3	43.0	43.0	43.6	43.0	44.9	45.5	45.5	48.7	52.6
87.5°	17.4	16.3	16.8	17.3	16.8	17.2	17.7	18.1	18.6	19.0	19.3
90°	10.0	9.8	9.7	9.5	9.4	9.1	8.9	8.6	8.3	8.0	7.1
92.5°	11.0	10.9	10.8	10.7	10.7	10.5	10.0	9.5	9.0	8.5	7.8
95°	12.6	12.6	12.6	12.6	12.6	12.4	11.9	11.4	10.8	10.4	9.5
97.5°	13.8	13.7	13.6	13.5	13.4	13.1	12.5	11.9	11.3	10.7	16.0
100°	13.9	13.9	13.9	13.8	13.7	13.4	12.7	12.2	11.6	11.0	22.5
102.5°	14.2	14.1	13.9	13.9	13.8	14.6	16.4	18.3	20.1	22.0	34.5
105°	14.6	14.5	14.3	14.2	14.0	20.5	33.6	46.8	59.9	73.0	79.6
107.5°	46.0	55.9	65.8	75.7	85.5	95.3	104.9	114.5	124.0	133.7	132.6
110°	91.6	102.2	112.7	123.4	133.9	140.4	142.9	145.3	147.8	150.2	149.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	157.1	159.4	161.6	163.8	166.1	167.2	167.1	167.1	167.0	167.0	166.2
115°	195.9	195.6	195.3	194.9	194.6	194.2	193.4	192.7	191.9	191.1	190.5
117.5°	217.5	217.5	217.4	217.4	217.4	217.0	216.4	215.8	215.2	214.6	214.3
120°	232.5	232.5	232.5	232.5	232.5	232.1	231.6	231.0	230.5	229.8	229.6
122.5°	247.1	247.0	247.0	246.9	246.9	246.7	246.3	245.8	245.4	245.0	244.7
125°	267.8	267.7	267.5	267.3	267.2	267.0	266.9	266.7	266.6	266.5	266.2
127.5°	287.7	287.8	287.9	288.0	288.2	288.2	287.9	287.7	287.5	287.2	286.9
130°	300.4	300.6	300.8	300.9	301.0	301.0	300.7	300.4	300.0	299.7	299.4
132.5°	312.2	312.4	312.5	312.7	313.0	312.9	312.6	312.4	312.1	311.8	311.5
135°	330.1	330.3	330.5	330.7	330.9	330.9	330.7	330.5	330.3	330.1	329.8
137.5°	346.9	347.0	347.2	347.3	347.5	347.4	347.0	346.7	346.4	346.0	345.8
140°	357.0	357.2	357.3	357.5	357.6	357.6	357.2	356.9	356.7	356.4	356.2
142.5°	366.4	366.6	366.7	367.0	367.2	367.2	366.9	366.7	366.5	366.3	366.0
145°	380.7	380.7	380.7	380.7	380.7	380.6	380.5	380.3	380.2	380.0	379.8
147.5°	391.3	391.7	392.0	392.4	392.8	392.9	392.7	392.5	392.4	392.2	392.1
150°	399.4	399.5	399.8	400.0	400.2	400.3	400.1	400.0	399.8	399.6	399.5
152.5°	405.8	406.0	406.4	406.8	407.1	407.2	406.9	406.6	406.3	406.0	406.0
155°	414.6	415.1	415.6	416.0	416.4	416.5	416.1	415.8	415.4	415.0	414.9
157.5°	422.2	422.7	423.4	424.0	424.5	424.6	424.1	423.7	423.2	422.8	422.8
160°	427.0	427.5	428.0	428.6	429.0	429.1	428.7	428.2	427.7	427.3	427.4
162.5°	431.5	432.0	432.4	432.9	433.4	433.3	432.8	432.3	431.8	431.3	431.4
165°	437.0	437.5	438.0	438.6	439.0	439.0	438.5	437.8	437.2	436.7	436.7
167.5°	440.9	441.5	442.1	442.7	443.3	443.3	442.7	442.1	441.5	440.9	440.9
170°	443.3	443.9	444.5	445.1	445.6	445.6	445.1	444.5	443.9	443.3	443.3
172.5°	444.6	445.3	445.9	446.6	447.2	447.2	446.7	446.1	445.5	444.9	444.9
175°	446.7	447.2	447.8	448.5	449.0	449.0	448.6	448.0	447.5	447.0	446.9
177.5°	447.2	447.8	448.5	449.0	449.6	449.7	449.2	448.7	448.3	447.8	447.7
180°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1364.9	1360.7	1356.7	1349.5	1343.3	1334.6	1332.0	1329.0	1319.7	1311.5	1305.3
5°	1448.2	1432.9	1410.4	1389.9	1373.2	1350.8	1337.9	1324.5	1305.2	1287.9	1273.8
7.5°	1535.5	1505.2	1470.4	1432.6	1397.5	1363.6	1336.2	1311.9	1285.0	1259.4	1239.5
10°	1604.8	1561.1	1512.4	1459.8	1414.9	1371.3	1334.7	1302.7	1268.0	1237.8	1212.9
12.5°	1683.8	1619.1	1551.9	1488.0	1434.9	1374.4	1330.1	1289.3	1250.1	1213.8	1185.7
15°	1777.3	1695.2	1615.7	1527.8	1447.0	1371.3	1318.7	1267.4	1221.8	1184.7	1148.8
17.5°	1862.5	1769.4	1664.6	1557.8	1460.3	1370.6	1296.9	1238.9	1181.9	1136.4	1100.6
20°	1910.7	1804.9	1686.2	1575.3	1467.5	1367.4	1286.7	1217.4	1155.7	1107.7	1067.2
22.5°	1952.3	1828.4	1705.7	1587.1	1467.0	1359.2	1267.6	1196.4	1129.6	1082.5	1039.5
25°	1995.4	1847.2	1724.1	1584.9	1450.9	1339.3	1236.6	1155.7	1089.1	1034.0	989.7
27.5°	2032.3	1846.0	1699.8	1550.1	1425.4	1313.5	1204.0	1117.3	1046.5	986.6	941.7
30°	2056.9	1848.5	1674.7	1526.5	1400.8	1285.3	1178.8	1091.7	1017.3	956.3	914.0
32.5°	2072.4	1846.9	1651.6	1493.6	1361.8	1259.7	1151.7	1061.4	985.0	925.0	884.2
35°	2081.3	1835.7	1611.8	1425.8	1298.8	1199.4	1109.0	1015.3	935.2	879.4	833.2
37.5°	2063.3	1811.9	1565.7	1360.4	1221.3	1123.4	1047.4	967.6	890.9	829.4	789.7
40°	2035.1	1796.6	1529.7	1314.2	1168.0	1073.7	1008.9	930.7	855.0	796.6	759.4
42.5°	1981.2	1765.2	1490.3	1262.9	1112.6	1018.2	958.7	893.2	821.6	766.9	729.6
45°	1849.7	1697.1	1431.0	1185.9	1030.7	933.2	880.6	833.2	768.4	715.1	683.1
47.5°	1667.4	1594.6	1345.3	1104.8	945.3	851.5	796.8	758.7	711.3	668.4	637.5
50°	1540.6	1510.5	1287.2	1049.3	888.3	796.6	744.0	709.4	675.4	632.4	604.2
52.5°	1394.4	1413.0	1219.6	991.8	830.4	740.2	690.7	663.2	632.3	597.0	572.4
55°	1188.5	1255.8	1102.6	895.4	744.0	658.1	611.2	586.8	568.9	542.6	521.4
57.5°	995.7	1081.4	976.1	796.0	659.2	585.0	540.2	513.6	502.1	488.3	471.6
60°	881.3	965.9	885.8	729.2	602.3	531.7	491.9	469.5	458.0	448.4	434.2
62.5°	779.2	864.9	797.5	661.6	546.3	480.9	446.3	424.3	415.4	410.4	398.3
65°	638.9	712.6	667.7	556.1	466.3	408.6	377.1	361.7	353.5	351.5	343.7
67.5°	519.9	576.1	543.4	461.3	390.6	340.7	314.1	301.0	294.5	293.9	288.1
70°	442.0	494.6	469.5	395.1	334.1	295.0	271.9	260.4	256.6	255.9	252.7
72.5°	381.4	418.0	398.1	336.1	289.0	253.4	236.6	224.5	220.1	221.0	218.9
75°	282.2	309.8	298.2	255.2	217.4	194.4	180.2	172.6	168.7	170.6	168.1
77.5°	203.0	220.6	210.1	180.4	157.0	140.3	130.0	125.2	121.8	121.6	120.5
80°	153.3	163.5	157.8	139.8	120.6	106.5	98.1	94.9	93.0	92.4	91.7
82.5°	109.1	117.9	111.1	98.8	85.7	77.2	72.5	68.2	66.8	67.2	66.5
85°	55.1	58.3	55.8	48.1	43.0	39.1	36.6	34.6	33.4	34.0	32.7
87.5°	20.2	20.5	18.8	16.6	15.4	13.7	13.6	12.3	11.5	11.7	11.3
90°	6.0	5.1	4.1	3.3	2.5	1.8	1.0	0.4	1.0	1.8	2.5
92.5°	7.1	6.3	5.7	5.4	5.6	5.7	6.0	6.2	6.0	5.7	5.6
95°	8.7	7.9	7.1	8.2	11.2	14.2	17.2	20.4	17.2	14.2	11.2
97.5°	21.4	26.7	32.0	35.3	36.8	38.1	39.5	40.8	39.5	38.1	36.8
100°	34.1	45.6	57.2	62.2	60.7	59.3	57.8	56.3	57.8	59.3	60.7
102.5°	47.1	59.8	72.4	78.1	77.1	76.0	74.9	73.9	74.9	76.0	77.1
105°	86.2	92.9	99.6	102.5	101.7	100.9	100.1	99.2	100.1	100.9	101.7
107.5°	131.6	130.5	129.5	128.7	128.0	127.3	126.7	126.0	126.7	127.3	128.0
110°	148.5	147.8	146.9	146.3	145.6	145.1	144.5	143.9	144.5	145.1	145.6



TEST NUMBER: P332000-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	165.4	164.6	163.7	163.1	162.5	162.0	161.5	160.9	161.5	162.0	162.5
115°	189.8	189.2	188.5	187.9	187.5	187.1	186.6	186.2	186.6	187.1	187.5
117.5°	214.0	213.6	213.3	212.8	212.3	211.7	211.2	210.7	211.2	211.7	212.3
120°	229.4	229.1	228.9	228.5	227.8	227.2	226.5	225.8	226.5	227.2	227.8
122.5°	244.4	244.1	243.8	243.5	242.9	242.3	241.9	241.3	241.9	242.3	242.9
125°	265.9	265.6	265.2	264.9	264.2	263.6	263.1	262.5	263.1	263.6	264.2
127.5°	286.5	286.2	285.8	285.3	284.7	284.2	283.6	283.0	283.6	284.2	284.7
130°	299.2	298.9	298.6	298.1	297.6	296.9	296.3	295.8	296.3	296.9	297.6
132.5°	311.3	311.0	310.8	310.4	309.8	309.2	308.6	308.0	308.6	309.2	309.8
135°	329.5	329.1	328.9	328.5	328.1	327.6	327.2	326.8	327.2	327.6	328.1
137.5°	345.6	345.5	345.3	345.0	344.4	343.8	343.3	342.7	343.3	343.8	344.4
140°	355.9	355.7	355.5	355.2	354.7	354.3	353.8	353.4	353.8	354.3	354.7
142.5°	365.8	365.6	365.3	365.0	364.6	364.1	363.7	363.3	363.7	364.1	364.6
145°	379.8	379.6	379.5	379.1	378.6	378.1	377.6	377.0	377.6	378.1	378.6
147.5°	391.9	391.8	391.6	391.3	391.1	390.7	390.4	390.0	390.4	390.7	391.1
150°	399.4	399.3	399.1	398.9	398.7	398.4	398.2	398.0	398.2	398.4	398.7
152.5°	405.9	405.8	405.8	405.6	405.5	405.4	405.3	405.2	405.3	405.4	405.5
155°	414.8	414.8	414.7	414.7	414.9	415.0	415.2	415.4	415.2	415.0	414.9
157.5°	422.9	423.0	423.1	423.1	423.1	423.2	423.2	423.2	423.2	423.2	423.1
160°	427.4	427.5	427.6	427.7	427.7	427.8	427.9	428.0	427.9	427.8	427.7
162.5°	431.5	431.5	431.6	431.8	432.0	432.2	432.3	432.5	432.3	432.2	432.0
165°	436.8	436.9	437.0	437.1	437.3	437.5	437.7	438.0	437.7	437.5	437.3
167.5°	440.9	440.9	440.9	441.0	441.4	441.7	442.0	442.2	442.0	441.7	441.4
170°	443.3	443.3	443.3	443.5	443.7	444.0	444.3	444.6	444.3	444.0	443.7
172.5°	444.8	444.7	444.7	444.8	445.2	445.5	445.9	446.2	445.9	445.5	445.2
175°	446.9	446.8	446.7	446.9	447.2	447.5	447.9	448.3	447.9	447.5	447.2
177.5°	447.6	447.6	447.5	447.6	448.0	448.3	448.6	448.8	448.6	448.3	448.0
180°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3



TEST NUMBER: P332000-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1301.7	1298.2	1293.1	1285.3	1279.2	1269.4	1269.4	1271.0	1271.0	1270.5	1269.4
5°	1262.3	1252.6	1241.1	1227.7	1213.5	1199.4	1196.8	1191.8	1187.9	1185.2	1182.0
7.5°	1220.6	1203.5	1186.7	1167.8	1150.7	1136.4	1126.5	1118.3	1113.0	1107.4	1103.3
10°	1192.3	1171.2	1151.3	1131.4	1109.6	1092.3	1081.4	1073.7	1067.9	1062.8	1060.3
12.5°	1159.0	1134.7	1112.9	1093.9	1070.1	1052.3	1041.9	1038.3	1031.5	1020.7	1015.0
15°	1110.2	1087.8	1061.5	1032.6	1021.1	999.3	987.1	981.4	977.5	969.1	966.6
17.5°	1068.6	1039.2	1009.7	988.2	966.7	949.0	942.2	935.0	929.9	923.1	921.1
20°	1035.2	1008.9	981.9	958.8	936.4	917.2	911.4	906.3	901.2	898.0	895.4
22.5°	1001.4	975.1	952.7	931.1	907.2	894.6	888.3	882.7	879.1	876.9	874.3
25°	953.8	930.7	905.7	886.4	867.1	858.8	855.0	851.8	849.2	846.0	845.4
27.5°	911.2	886.0	865.7	847.8	834.0	827.0	823.3	821.7	822.3	823.4	824.2
30°	879.4	856.3	839.6	824.2	811.3	804.9	804.3	804.3	806.9	807.5	808.8
32.5°	850.1	831.1	814.5	799.6	789.9	785.4	787.9	787.9	789.9	791.6	793.9
35°	807.5	790.8	778.0	765.2	756.9	758.7	760.1	761.3	764.5	768.4	771.0
37.5°	766.9	752.3	739.0	729.0	725.2	728.6	731.7	734.4	738.1	741.0	743.7
40°	737.6	726.7	713.9	704.9	706.2	708.1	710.7	713.9	717.1	719.0	721.6
42.5°	710.4	699.0	689.3	681.8	683.6	686.1	687.6	689.3	693.0	696.4	698.0
45°	669.0	660.0	651.0	646.5	647.8	649.1	650.4	652.3	655.5	658.1	658.7
47.5°	622.4	616.1	610.1	605.8	607.8	607.3	609.0	613.0	614.1	615.6	619.2
50°	592.7	586.8	579.9	578.5	578.5	578.5	579.2	584.3	584.3	586.8	589.5
52.5°	559.8	556.1	551.6	549.3	548.3	548.3	550.9	553.6	554.6	558.2	560.7
55°	511.2	507.4	503.5	501.5	500.3	501.5	506.7	507.9	511.2	513.1	515.0
57.5°	460.5	457.6	454.5	453.5	453.2	454.9	457.7	461.6	462.3	468.3	471.2
60°	427.2	422.6	420.1	420.1	418.9	424.6	423.3	429.7	431.0	434.9	439.3
62.5°	392.8	386.7	385.7	385.7	387.6	389.2	391.0	393.8	397.2	402.0	405.5
65°	337.3	334.1	338.7	338.0	336.8	340.5	340.5	343.7	347.6	352.1	359.2
67.5°	284.9	283.2	283.6	283.6	285.6	287.8	289.5	292.4	297.0	301.7	306.3
70°	249.5	251.5	248.3	250.8	252.7	253.4	254.7	258.4	263.6	266.8	271.9
72.5°	215.1	215.0	215.4	216.4	218.3	219.5	220.7	225.2	230.7	233.5	237.6
75°	165.5	164.9	166.7	166.7	169.9	171.3	172.6	174.5	179.6	183.4	186.6
77.5°	120.8	121.6	121.2	123.4	122.5	122.7	126.8	128.7	129.2	136.8	138.5
80°	91.0	92.4	93.0	93.7	94.3	93.0	97.5	99.4	99.4	103.9	107.1
82.5°	65.4	66.2	67.9	68.5	68.6	69.9	70.3	71.7	73.2	75.2	79.4
85°	32.7	34.6	35.3	34.6	35.3	34.0	35.9	36.6	37.2	37.2	37.2
87.5°	10.9	11.6	11.3	12.0	11.7	12.3	12.4	11.5	11.5	13.1	11.1
90°	3.3	4.1	5.1	6.0	7.1	8.0	8.3	8.6	8.9	9.1	9.4
92.5°	5.4	5.7	6.3	7.1	7.8	8.5	9.0	9.5	10.0	10.5	10.7
95°	8.2	7.1	7.9	8.7	9.5	10.4	10.8	11.4	11.9	12.4	12.6
97.5°	35.3	32.0	26.7	21.4	16.0	10.7	11.3	11.9	12.5	13.1	13.4
100°	62.2	57.2	45.6	34.1	22.5	11.0	11.6	12.2	12.7	13.4	13.7
102.5°	78.1	72.4	59.8	47.1	34.5	22.0	20.1	18.3	16.4	14.6	13.8
105°	102.5	99.6	92.9	86.2	79.6	73.0	59.9	46.8	33.6	20.5	14.0
107.5°	128.7	129.5	130.5	131.6	132.6	133.7	124.0	114.5	104.9	95.3	85.5
110°	146.3	146.9	147.8	148.5	149.4	150.2	147.8	145.3	142.9	140.4	133.9



TEST NUMBER: P332000-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	163.1	163.7	164.6	165.4	166.2	167.0	167.0	167.1	167.1	167.2	166.1
115°	187.9	188.5	189.2	189.8	190.5	191.1	191.9	192.7	193.4	194.2	194.6
117.5°	212.8	213.3	213.6	214.0	214.3	214.6	215.2	215.8	216.4	217.0	217.4
120°	228.5	228.9	229.1	229.4	229.6	229.8	230.5	231.0	231.6	232.1	232.5
122.5°	243.5	243.8	244.1	244.4	244.7	245.0	245.4	245.8	246.3	246.7	246.9
125°	264.9	265.2	265.6	265.9	266.2	266.5	266.6	266.7	266.9	267.0	267.2
127.5°	285.3	285.8	286.2	286.5	286.9	287.2	287.5	287.7	287.9	288.2	288.2
130°	298.1	298.6	298.9	299.2	299.4	299.7	300.0	300.4	300.7	301.0	301.0
132.5°	310.4	310.8	311.0	311.3	311.5	311.8	312.1	312.4	312.6	312.9	313.0
135°	328.5	328.9	329.1	329.5	329.8	330.1	330.3	330.5	330.7	330.9	330.9
137.5°	345.0	345.3	345.5	345.6	345.8	346.0	346.4	346.7	347.0	347.4	347.5
140°	355.2	355.5	355.7	355.9	356.2	356.4	356.7	356.9	357.2	357.6	357.6
142.5°	365.0	365.3	365.6	365.8	366.0	366.3	366.5	366.7	366.9	367.2	367.2
145°	379.1	379.5	379.6	379.8	379.8	380.0	380.2	380.3	380.5	380.6	380.7
147.5°	391.3	391.6	391.8	391.9	392.1	392.2	392.4	392.5	392.7	392.9	392.8
150°	398.9	399.1	399.3	399.4	399.5	399.6	399.8	400.0	400.1	400.3	400.2
152.5°	405.6	405.8	405.8	405.9	406.0	406.0	406.3	406.6	406.9	407.2	407.1
155°	414.7	414.7	414.8	414.8	414.9	415.0	415.4	415.8	416.1	416.5	416.4
157.5°	423.1	423.1	423.0	422.9	422.8	422.8	423.2	423.7	424.1	424.6	424.5
160°	427.7	427.6	427.5	427.4	427.4	427.3	427.7	428.2	428.7	429.1	429.0
162.5°	431.8	431.6	431.5	431.5	431.4	431.3	431.8	432.3	432.8	433.3	433.4
165°	437.1	437.0	436.9	436.8	436.7	436.7	437.2	437.8	438.5	439.0	439.0
167.5°	441.0	440.9	440.9	440.9	440.9	440.9	441.5	442.1	442.7	443.3	443.3
170°	443.5	443.3	443.3	443.3	443.3	443.3	443.9	444.5	445.1	445.6	445.6
172.5°	444.8	444.7	444.7	444.8	444.9	444.9	445.5	446.1	446.7	447.2	447.2
175°	446.9	446.7	446.8	446.9	446.9	447.0	447.5	448.0	448.6	449.0	449.0
177.5°	447.6	447.5	447.6	447.6	447.7	447.8	448.3	448.7	449.2	449.7	449.6
180°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3



TEST NUMBER: P332000-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1265.8	1265.4	1268.9	1266.4	1268.9	1265.4	1265.8	1269.4	1270.5	1271.0	1271.0
5°	1178.3	1180.2	1173.7	1173.7	1173.7	1180.2	1178.3	1182.0	1185.2	1187.9	1191.8
7.5°	1100.2	1097.4	1097.7	1094.2	1097.7	1097.4	1100.2	1103.3	1107.4	1113.0	1118.3
10°	1052.5	1048.7	1047.4	1048.0	1047.4	1048.7	1052.5	1060.3	1062.8	1067.9	1073.7
12.5°	1013.0	1012.3	1003.8	1003.9	1003.8	1012.3	1013.0	1015.0	1020.7	1031.5	1038.3
15°	966.6	954.4	953.1	957.0	953.1	954.4	966.6	966.6	969.1	977.5	981.4
17.5°	920.0	913.6	914.0	912.1	914.0	913.6	920.0	921.1	923.1	929.9	935.0
20°	895.4	891.6	890.9	886.4	890.9	891.6	895.4	895.4	898.0	901.2	906.3
22.5°	872.8	871.6	871.9	867.0	871.9	871.6	872.8	874.3	876.9	879.1	882.7
25°	844.7	847.9	845.4	845.4	845.4	847.9	844.7	845.4	846.0	849.2	851.8
27.5°	825.8	825.6	824.3	824.3	824.3	825.6	825.8	824.2	823.4	822.3	821.7
30°	811.3	810.7	812.0	812.0	812.0	810.7	811.3	808.8	807.5	806.9	804.3
32.5°	797.0	797.9	798.1	798.6	798.1	797.9	797.0	793.9	791.6	789.9	787.9
35°	774.8	775.4	777.4	776.1	777.4	775.4	774.8	771.0	768.4	764.5	761.3
37.5°	744.8	747.7	747.1	748.1	747.1	747.7	744.8	743.7	741.0	738.1	734.4
40°	722.2	724.2	723.5	723.5	723.5	724.2	722.2	721.6	719.0	717.1	713.9
42.5°	699.1	700.5	698.9	697.9	698.9	700.5	699.1	698.0	696.4	693.0	689.3
45°	661.3	660.0	661.9	659.3	661.9	660.0	661.3	658.7	658.1	655.5	652.3
47.5°	619.0	620.2	620.8	622.6	620.8	620.2	619.0	619.2	615.6	614.1	613.0
50°	590.7	594.6	594.6	593.9	594.6	594.6	590.7	589.5	586.8	584.3	584.3
52.5°	563.0	564.8	567.4	567.2	567.4	564.8	563.0	560.7	558.2	554.6	553.6
55°	520.2	521.4	522.7	523.4	522.7	521.4	520.2	515.0	513.1	511.2	507.9
57.5°	475.8	475.2	478.3	479.3	478.3	475.2	475.8	471.2	468.3	462.3	461.6
60°	444.5	444.5	449.6	451.6	449.6	444.5	444.5	439.3	434.9	431.0	429.7
62.5°	411.1	413.2	418.3	415.7	418.3	413.2	411.1	405.5	402.0	397.2	393.8
65°	362.4	367.5	366.8	369.5	366.8	367.5	362.4	359.2	352.1	347.6	343.7
67.5°	311.4	314.6	319.2	319.7	319.2	314.6	311.4	306.3	301.7	297.0	292.4
70°	277.1	280.3	282.9	284.7	282.9	280.3	277.1	271.9	266.8	263.6	258.4
72.5°	243.7	245.4	251.6	248.8	251.6	245.4	243.7	237.6	233.5	230.7	225.2
75°	191.1	195.6	199.4	197.6	199.4	195.6	191.1	186.6	183.4	179.6	174.5
77.5°	141.4	145.8	147.6	146.0	147.6	145.8	141.4	138.5	136.8	129.2	128.7
80°	111.6	110.9	114.8	114.1	114.8	110.9	111.6	107.1	103.9	99.4	99.4
82.5°	81.8	81.2	83.0	83.4	83.0	81.2	81.8	79.4	75.2	73.2	71.7
85°	39.8	41.7	39.1	38.5	39.1	41.7	39.8	37.2	37.2	37.2	36.6
87.5°	11.1	11.2	10.7	10.2	10.7	11.2	11.1	11.1	13.1	11.5	11.5
90°	9.5	9.7	9.8	10.0	9.8	9.7	9.5	9.4	9.1	8.9	8.6
92.5°	10.7	10.8	10.9	11.0	10.9	10.8	10.7	10.7	10.5	10.0	9.5
95°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.4	11.9	11.4
97.5°	13.5	13.6	13.7	13.8	13.7	13.6	13.5	13.4	13.1	12.5	11.9
100°	13.8	13.9	13.9	13.9	13.9	13.9	13.8	13.7	13.4	12.7	12.2
102.5°	13.9	13.9	14.1	14.2	14.1	13.9	13.9	13.8	14.6	16.4	18.3
105°	14.2	14.3	14.5	14.6	14.5	14.3	14.2	14.0	20.5	33.6	46.8
107.5°	75.7	65.8	55.9	46.0	55.9	65.8	75.7	85.5	95.3	104.9	114.5
110°	123.4	112.7	102.2	91.6	102.2	112.7	123.4	133.9	140.4	142.9	145.3



TEST NUMBER: P332000-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	163.8	161.6	159.4	157.1	159.4	161.6	163.8	166.1	167.2	167.1	167.1
115°	194.9	195.3	195.6	195.9	195.6	195.3	194.9	194.6	194.2	193.4	192.7
117.5°	217.4	217.4	217.5	217.5	217.5	217.4	217.4	217.4	217.0	216.4	215.8
120°	232.5	232.5	232.5	232.5	232.5	232.5	232.5	232.5	232.1	231.6	231.0
122.5°	246.9	247.0	247.0	247.1	247.0	247.0	246.9	246.9	246.7	246.3	245.8
125°	267.3	267.5	267.7	267.8	267.7	267.5	267.3	267.2	267.0	266.9	266.7
127.5°	288.0	287.9	287.8	287.7	287.8	287.9	288.0	288.2	288.2	287.9	287.7
130°	300.9	300.8	300.6	300.4	300.6	300.8	300.9	301.0	301.0	300.7	300.4
132.5°	312.7	312.5	312.4	312.2	312.4	312.5	312.7	313.0	312.9	312.6	312.4
135°	330.7	330.5	330.3	330.1	330.3	330.5	330.7	330.9	330.9	330.7	330.5
137.5°	347.3	347.2	347.0	346.9	347.0	347.2	347.3	347.5	347.4	347.0	346.7
140°	357.5	357.3	357.2	357.0	357.2	357.3	357.5	357.6	357.6	357.2	356.9
142.5°	367.0	366.7	366.6	366.4	366.6	366.7	367.0	367.2	367.2	366.9	366.7
145°	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.6	380.5	380.3
147.5°	392.4	392.0	391.7	391.3	391.7	392.0	392.4	392.8	392.9	392.7	392.5
150°	400.0	399.8	399.5	399.4	399.5	399.8	400.0	400.2	400.3	400.1	400.0
152.5°	406.8	406.4	406.0	405.8	406.0	406.4	406.8	407.1	407.2	406.9	406.6
155°	416.0	415.6	415.1	414.6	415.1	415.6	416.0	416.4	416.5	416.1	415.8
157.5°	424.0	423.4	422.7	422.2	422.7	423.4	424.0	424.5	424.6	424.1	423.7
160°	428.6	428.0	427.5	427.0	427.5	428.0	428.6	429.0	429.1	428.7	428.2
162.5°	432.9	432.4	432.0	431.5	432.0	432.4	432.9	433.4	433.3	432.8	432.3
165°	438.6	438.0	437.5	437.0	437.5	438.0	438.6	439.0	439.0	438.5	437.8
167.5°	442.7	442.1	441.5	440.9	441.5	442.1	442.7	443.3	443.3	442.7	442.1
170°	445.1	444.5	443.9	443.3	443.9	444.5	445.1	445.6	445.6	445.1	444.5
172.5°	446.6	445.9	445.3	444.6	445.3	445.9	446.6	447.2	447.2	446.7	446.1
175°	448.5	447.8	447.2	446.7	447.2	447.8	448.5	449.0	449.0	448.6	448.0
177.5°	449.0	448.5	447.8	447.2	447.8	448.5	449.0	449.6	449.7	449.2	448.7
180°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3



TEST NUMBER: P332000-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1269.4	1269.4	1279.2	1285.3	1293.1	1298.2	1301.7	1305.3	1311.5	1319.7	1329.0
5°	1196.8	1199.4	1213.5	1227.7	1241.1	1252.6	1262.3	1273.8	1287.9	1305.2	1324.5
7.5°	1126.5	1136.4	1150.7	1167.8	1186.7	1203.5	1220.6	1239.5	1259.4	1285.0	1311.9
10°	1081.4	1092.3	1109.6	1131.4	1151.3	1171.2	1192.3	1212.9	1237.8	1268.0	1302.7
12.5°	1041.9	1052.3	1070.1	1093.9	1112.9	1134.7	1159.0	1185.7	1213.8	1250.1	1289.3
15°	987.1	999.3	1021.1	1032.6	1061.5	1087.8	1110.2	1148.8	1184.7	1221.8	1267.4
17.5°	942.2	949.0	966.7	988.2	1009.7	1039.2	1068.6	1100.6	1136.4	1181.9	1238.9
20°	911.4	917.2	936.4	958.8	981.9	1008.9	1035.2	1067.2	1107.7	1155.7	1217.4
22.5°	888.3	894.6	907.2	931.1	952.7	975.1	1001.4	1039.5	1082.5	1129.6	1196.4
25°	855.0	858.8	867.1	886.4	905.7	930.7	953.8	989.7	1034.0	1089.1	1155.7
27.5°	823.3	827.0	834.0	847.8	865.7	886.0	911.2	941.7	986.6	1046.5	1117.3
30°	804.3	804.9	811.3	824.2	839.6	856.3	879.4	914.0	956.3	1017.3	1091.7
32.5°	787.9	785.4	789.9	799.6	814.5	831.1	850.1	884.2	925.0	985.0	1061.4
35°	760.1	758.7	756.9	765.2	778.0	790.8	807.5	833.2	879.4	935.2	1015.3
37.5°	731.7	728.6	725.2	729.0	739.0	752.3	766.9	789.7	829.4	890.9	967.6
40°	710.7	708.1	706.2	704.9	713.9	726.7	737.6	759.4	796.6	855.0	930.7
42.5°	687.6	686.1	683.6	681.8	689.3	699.0	710.4	729.6	766.9	821.6	893.2
45°	650.4	649.1	647.8	646.5	651.0	660.0	669.0	683.1	715.1	768.4	833.2
47.5°	609.0	607.3	607.8	605.8	610.1	616.1	622.4	637.5	668.4	711.3	758.7
50°	579.2	578.5	578.5	578.5	579.9	586.8	592.7	604.2	632.4	675.4	709.4
52.5°	550.9	548.3	548.3	549.3	551.6	556.1	559.8	572.4	597.0	632.3	663.2
55°	506.7	501.5	500.3	501.5	503.5	507.4	511.2	521.4	542.6	568.9	586.8
57.5°	457.7	454.9	453.2	453.5	454.5	457.6	460.5	471.6	488.3	502.1	513.6
60°	423.3	424.6	418.9	420.1	420.1	422.6	427.2	434.2	448.4	458.0	469.5
62.5°	391.0	389.2	387.6	385.7	385.7	386.7	392.8	398.3	410.4	415.4	424.3
65°	340.5	340.5	336.8	338.0	338.7	334.1	337.3	343.7	351.5	353.5	361.7
67.5°	289.5	287.8	285.6	283.6	283.6	283.2	284.9	288.1	293.9	294.5	301.0
70°	254.7	253.4	252.7	250.8	248.3	251.5	249.5	252.7	255.9	256.6	260.4
72.5°	220.7	219.5	218.3	216.4	215.4	215.0	215.1	218.9	221.0	220.1	224.5
75°	172.6	171.3	169.9	166.7	166.7	164.9	165.5	168.1	170.6	168.7	172.6
77.5°	126.8	122.7	122.5	123.4	121.2	121.6	120.8	120.5	121.6	121.8	125.2
80°	97.5	93.0	94.3	93.7	93.0	92.4	91.0	91.7	92.4	93.0	94.9
82.5°	70.3	69.9	68.6	68.5	67.9	66.2	65.4	66.5	67.2	66.8	68.2
85°	35.9	34.0	35.3	34.6	35.3	34.6	32.7	32.7	34.0	33.4	34.6
87.5°	12.4	12.3	11.7	12.0	11.3	11.6	10.9	11.3	11.7	11.5	12.3
90°	8.3	8.0	7.1	6.0	5.1	4.1	3.3	2.5	1.8	1.0	0.4
92.5°	9.0	8.5	7.8	7.1	6.3	5.7	5.4	5.6	5.7	6.0	6.2
95°	10.8	10.4	9.5	8.7	7.9	7.1	8.2	11.2	14.2	17.2	20.4
97.5°	11.3	10.7	16.0	21.4	26.7	32.0	35.3	36.8	38.1	39.5	40.8
100°	11.6	11.0	22.5	34.1	45.6	57.2	62.2	60.7	59.3	57.8	56.3
102.5°	20.1	22.0	34.5	47.1	59.8	72.4	78.1	77.1	76.0	74.9	73.9
105°	59.9	73.0	79.6	86.2	92.9	99.6	102.5	101.7	100.9	100.1	99.2
107.5°	124.0	133.7	132.6	131.6	130.5	129.5	128.7	128.0	127.3	126.7	126.0
110°	147.8	150.2	149.4	148.5	147.8	146.9	146.3	145.6	145.1	144.5	143.9



TEST NUMBER: P332000-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	167.0	167.0	166.2	165.4	164.6	163.7	163.1	162.5	162.0	161.5	160.9
115°	191.9	191.1	190.5	189.8	189.2	188.5	187.9	187.5	187.1	186.6	186.2
117.5°	215.2	214.6	214.3	214.0	213.6	213.3	212.8	212.3	211.7	211.2	210.7
120°	230.5	229.8	229.6	229.4	229.1	228.9	228.5	227.8	227.2	226.5	225.8
122.5°	245.4	245.0	244.7	244.4	244.1	243.8	243.5	242.9	242.3	241.9	241.3
125°	266.6	266.5	266.2	265.9	265.6	265.2	264.9	264.2	263.6	263.1	262.5
127.5°	287.5	287.2	286.9	286.5	286.2	285.8	285.3	284.7	284.2	283.6	283.0
130°	300.0	299.7	299.4	299.2	298.9	298.6	298.1	297.6	296.9	296.3	295.8
132.5°	312.1	311.8	311.5	311.3	311.0	310.8	310.4	309.8	309.2	308.6	308.0
135°	330.3	330.1	329.8	329.5	329.1	328.9	328.5	328.1	327.6	327.2	326.8
137.5°	346.4	346.0	345.8	345.6	345.5	345.3	345.0	344.4	343.8	343.3	342.7
140°	356.7	356.4	356.2	355.9	355.7	355.5	355.2	354.7	354.3	353.8	353.4
142.5°	366.5	366.3	366.0	365.8	365.6	365.3	365.0	364.6	364.1	363.7	363.3
145°	380.2	380.0	379.8	379.8	379.6	379.5	379.1	378.6	378.1	377.6	377.0
147.5°	392.4	392.2	392.1	391.9	391.8	391.6	391.3	391.1	390.7	390.4	390.0
150°	399.8	399.6	399.5	399.4	399.3	399.1	398.9	398.7	398.4	398.2	398.0
152.5°	406.3	406.0	406.0	405.9	405.8	405.8	405.6	405.5	405.4	405.3	405.2
155°	415.4	415.0	414.9	414.8	414.8	414.7	414.7	414.9	415.0	415.2	415.4
157.5°	423.2	422.8	422.8	422.9	423.0	423.1	423.1	423.1	423.2	423.2	423.2
160°	427.7	427.3	427.4	427.4	427.5	427.6	427.7	427.7	427.8	427.9	428.0
162.5°	431.8	431.3	431.4	431.5	431.5	431.6	431.8	432.0	432.2	432.3	432.5
165°	437.2	436.7	436.7	436.8	436.9	437.0	437.1	437.3	437.5	437.7	438.0
167.5°	441.5	440.9	440.9	440.9	440.9	440.9	441.0	441.4	441.7	442.0	442.2
170°	443.9	443.3	443.3	443.3	443.3	443.3	443.5	443.7	444.0	444.3	444.6
172.5°	445.5	444.9	444.9	444.8	444.7	444.7	444.8	445.2	445.5	445.9	446.2
175°	447.5	447.0	446.9	446.9	446.8	446.7	446.9	447.2	447.5	447.9	448.3
177.5°	448.3	447.8	447.7	447.6	447.6	447.5	447.6	448.0	448.3	448.6	448.8
180°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3



TEST NUMBER: P332000-830

CATALOG NUMBER: S123DIP-S1000D365U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1332.0	1334.6	1343.3	1349.5	1356.7	1360.7	1364.9	1368.0	1372.1	1373.1	1388.0
5°	1337.9	1350.8	1373.2	1389.9	1410.4	1432.9	1448.2	1455.3	1473.9	1489.3	1520.1
7.5°	1336.2	1363.6	1397.5	1432.6	1470.4	1505.2	1535.5	1571.4	1596.9	1635.3	1673.1
10°	1334.7	1371.3	1414.9	1459.8	1512.4	1561.1	1604.8	1653.5	1693.9	1747.2	1792.7
12.5°	1330.1	1374.4	1434.9	1488.0	1551.9	1619.1	1683.8	1746.3	1782.2	1870.9	1912.8
15°	1318.7	1371.3	1447.0	1527.8	1615.7	1695.2	1777.3	1842.8	1948.5	2026.2	2075.6
17.5°	1296.9	1370.6	1460.3	1557.8	1664.6	1769.4	1862.5	1961.8	2074.0	2167.9	2267.9
20°	1286.7	1367.4	1467.5	1575.3	1686.2	1804.9	1910.7	2030.0	2152.5	2244.9	2373.1
22.5°	1267.6	1359.2	1467.0	1587.1	1705.7	1828.4	1952.3	2072.6	2214.1	2341.4	2463.4
25°	1236.6	1339.3	1450.9	1584.9	1724.1	1847.2	1995.4	2155.1	2302.6	2466.2	2588.0
27.5°	1204.0	1313.5	1425.4	1550.1	1699.8	1846.0	2032.3	2212.8	2393.1	2534.4	2624.6
30°	1178.8	1285.3	1400.8	1526.5	1674.7	1848.5	2056.9	2253.8	2429.6	2550.8	2601.5
32.5°	1151.7	1259.7	1361.8	1493.6	1651.6	1846.9	2072.4	2277.9	2431.7	2512.3	2502.5
35°	1109.0	1199.4	1298.8	1425.8	1611.8	1835.7	2081.3	2280.1	2374.5	2357.1	2226.3
37.5°	1047.4	1123.4	1221.3	1360.4	1565.7	1811.9	2063.3	2212.5	2206.4	2065.4	1875.8
40°	1008.9	1073.7	1168.0	1314.2	1529.7	1796.6	2035.1	2132.0	2049.9	1852.9	1625.9
42.5°	958.7	1018.2	1112.6	1262.9	1490.3	1765.2	1981.2	2009.3	1848.7	1622.1	1414.0
45°	880.6	933.2	1030.7	1185.9	1431.0	1697.1	1849.7	1781.1	1565.0	1330.9	1172.4
47.5°	796.8	851.5	945.3	1104.8	1345.3	1594.6	1667.4	1521.4	1299.5	1109.6	964.1
50°	744.0	796.6	888.3	1049.3	1287.2	1510.5	1540.6	1352.1	1148.1	981.4	862.0
52.5°	690.7	740.2	830.4	991.8	1219.6	1413.0	1394.4	1202.2	1014.6	872.5	778.9
55°	611.2	658.1	744.0	895.4	1102.6	1255.8	1188.5	1005.0	849.9	739.5	668.4
57.5°	540.2	585.0	659.2	796.0	976.1	1081.4	995.7	841.1	717.7	632.8	579.7
60°	491.9	531.7	602.3	729.2	885.8	965.9	881.3	744.7	640.7	572.8	525.3
62.5°	446.3	480.9	546.3	661.6	797.5	864.9	779.2	663.5	575.0	514.8	474.5
65°	377.1	408.6	466.3	556.1	667.7	712.6	638.9	545.2	476.5	431.7	404.7
67.5°	314.1	340.7	390.6	461.3	543.4	576.1	519.9	447.4	395.8	359.7	338.3
70°	271.9	295.0	334.1	395.1	469.5	494.6	442.0	382.3	344.4	315.6	295.7
72.5°	236.6	253.4	289.0	336.1	398.1	418.0	381.4	328.9	293.6	271.9	256.2
75°	180.2	194.4	217.4	255.2	298.2	309.8	282.2	249.5	225.7	210.4	198.2
77.5°	130.0	140.3	157.0	180.4	210.1	220.6	203.0	181.3	163.9	153.5	146.8
80°	98.1	106.5	120.6	139.8	157.8	163.5	153.3	136.6	124.4	118.7	112.9
82.5°	72.5	77.2	85.7	98.8	111.1	117.9	109.1	99.2	92.7	87.4	85.2
85°	36.6	39.1	43.0	48.1	55.8	58.3	55.1	52.6	48.7	45.5	45.5
87.5°	13.6	13.7	15.4	16.6	18.8	20.5	20.2	19.3	19.0	18.6	18.1
90°	1.0	1.8	2.5	3.3	4.1	5.1	6.0	7.1	8.0	8.3	8.6
92.5°	6.0	5.7	5.6	5.4	5.7	6.3	7.1	7.8	8.5	9.0	9.5
95°	17.2	14.2	11.2	8.2	7.1	7.9	8.7	9.5	10.4	10.8	11.4
97.5°	39.5	38.1	36.8	35.3	32.0	26.7	21.4	16.0	10.7	11.3	11.9
100°	57.8	59.3	60.7	62.2	57.2	45.6	34.1	22.5	11.0	11.6	12.2
102.5°	74.9	76.0	77.1	78.1	72.4	59.8	47.1	34.5	22.0	20.1	18.3
105°	100.1	100.9	101.7	102.5	99.6	92.9	86.2	79.6	73.0	59.9	46.8
107.5°	126.7	127.3	128.0	128.7	129.5	130.5	131.6	132.6	133.7	124.0	114.5
110°	144.5	145.1	145.6	146.3	146.9	147.8	148.5	149.4	150.2	147.8	145.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	161.5	162.0	162.5	163.1	163.7	164.6	165.4	166.2	167.0	167.0	167.1
115°	186.6	187.1	187.5	187.9	188.5	189.2	189.8	190.5	191.1	191.9	192.7
117.5°	211.2	211.7	212.3	212.8	213.3	213.6	214.0	214.3	214.6	215.2	215.8
120°	226.5	227.2	227.8	228.5	228.9	229.1	229.4	229.6	229.8	230.5	231.0
122.5°	241.9	242.3	242.9	243.5	243.8	244.1	244.4	244.7	245.0	245.4	245.8
125°	263.1	263.6	264.2	264.9	265.2	265.6	265.9	266.2	266.5	266.6	266.7
127.5°	283.6	284.2	284.7	285.3	285.8	286.2	286.5	286.9	287.2	287.5	287.7
130°	296.3	296.9	297.6	298.1	298.6	298.9	299.2	299.4	299.7	300.0	300.4
132.5°	308.6	309.2	309.8	310.4	310.8	311.0	311.3	311.5	311.8	312.1	312.4
135°	327.2	327.6	328.1	328.5	328.9	329.1	329.5	329.8	330.1	330.3	330.5
137.5°	343.3	343.8	344.4	345.0	345.3	345.5	345.6	345.8	346.0	346.4	346.7
140°	353.8	354.3	354.7	355.2	355.5	355.7	355.9	356.2	356.4	356.7	356.9
142.5°	363.7	364.1	364.6	365.0	365.3	365.6	365.8	366.0	366.3	366.5	366.7
145°	377.6	378.1	378.6	379.1	379.5	379.6	379.8	379.8	380.0	380.2	380.3
147.5°	390.4	390.7	391.1	391.3	391.6	391.8	391.9	392.1	392.2	392.4	392.5
150°	398.2	398.4	398.7	398.9	399.1	399.3	399.4	399.5	399.6	399.8	400.0
152.5°	405.3	405.4	405.5	405.6	405.8	405.8	405.9	406.0	406.0	406.3	406.6
155°	415.2	415.0	414.9	414.7	414.7	414.8	414.8	414.9	415.0	415.4	415.8
157.5°	423.2	423.2	423.1	423.1	423.1	423.0	422.9	422.8	422.8	423.2	423.7
160°	427.9	427.8	427.7	427.7	427.6	427.5	427.4	427.4	427.3	427.7	428.2
162.5°	432.3	432.2	432.0	431.8	431.6	431.5	431.5	431.4	431.3	431.8	432.3
165°	437.7	437.5	437.3	437.1	437.0	436.9	436.8	436.7	436.7	437.2	437.8
167.5°	442.0	441.7	441.4	441.0	440.9	440.9	440.9	440.9	440.9	441.5	442.1
170°	444.3	444.0	443.7	443.5	443.3	443.3	443.3	443.3	443.3	443.9	444.5
172.5°	445.9	445.5	445.2	444.8	444.7	444.7	444.8	444.9	444.9	445.5	446.1
175°	447.9	447.5	447.2	446.9	446.7	446.8	446.9	446.9	447.0	447.5	448.0
177.5°	448.6	448.3	448.0	447.6	447.5	447.6	447.6	447.7	447.8	448.3	448.7
180°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8	1323.8
2.5°	1393.1	1393.6	1399.3	1403.4	1401.3	1403.9	1404.9
5°	1522.0	1545.1	1557.3	1566.3	1566.9	1567.5	1572.7
7.5°	1704.8	1729.6	1747.7	1775.1	1783.3	1792.7	1790.0
10°	1838.2	1874.8	1906.2	1922.9	1940.9	1967.2	1946.0
12.5°	1962.9	2027.7	2075.6	2101.5	2118.4	2123.6	2113.3
15°	2168.5	2253.2	2298.8	2297.4	2355.2	2380.2	2341.1
17.5°	2357.1	2435.2	2497.8	2529.9	2578.0	2588.7	2583.8
20°	2472.6	2557.9	2606.6	2661.7	2686.8	2709.2	2713.1
22.5°	2572.1	2648.7	2701.0	2746.9	2767.9	2778.5	2784.9
25°	2674.6	2734.9	2766.4	2782.4	2788.1	2786.8	2778.5
27.5°	2667.6	2672.2	2637.5	2603.6	2573.1	2538.9	2527.1
30°	2598.3	2544.4	2448.2	2393.7	2313.5	2250.0	2275.7
32.5°	2416.1	2308.9	2200.8	2081.7	1983.0	1954.9	1926.7
35°	2062.1	1873.5	1763.2	1634.9	1583.6	1532.3	1497.0
37.5°	1668.3	1522.4	1391.6	1307.7	1256.2	1223.8	1206.4
40°	1442.5	1311.0	1203.2	1135.3	1096.2	1059.6	1054.4
42.5°	1262.3	1140.1	1059.0	1004.9	967.3	951.8	940.6
45°	1034.0	948.6	894.1	855.6	830.6	821.0	808.1
47.5°	875.2	814.8	773.9	747.7	728.9	721.7	720.7
50°	786.4	736.3	706.2	685.6	670.9	668.4	658.1
52.5°	719.6	676.3	652.8	634.9	624.2	617.0	614.0
55°	624.7	595.9	574.7	564.4	556.1	549.0	549.0
57.5°	546.6	522.5	508.5	499.7	497.2	492.2	489.0
60°	498.3	477.9	466.9	459.2	454.1	454.8	448.9
62.5°	451.2	437.8	427.4	419.7	413.6	413.7	414.1
65°	384.2	373.9	366.3	363.6	359.9	355.3	356.7
67.5°	325.6	315.9	309.9	305.6	304.3	301.8	305.6
70°	283.5	276.4	271.9	268.1	266.8	267.5	270.7
72.5°	245.0	240.0	237.0	235.3	232.4	232.5	234.8
75°	192.4	188.6	186.0	184.1	183.4	183.4	183.4
77.5°	141.4	140.4	139.3	136.5	136.6	137.4	137.5
80°	111.6	109.7	109.1	107.7	105.8	104.5	107.7
82.5°	83.4	81.4	80.8	80.6	77.6	77.4	80.0
85°	44.9	43.0	43.6	43.0	43.0	42.3	42.3
87.5°	17.7	17.2	16.8	17.3	16.8	16.3	17.4
90°	8.9	9.1	9.4	9.5	9.7	9.8	10.0
92.5°	10.0	10.5	10.7	10.7	10.8	10.9	11.0
95°	11.9	12.4	12.6	12.6	12.6	12.6	12.6
97.5°	12.5	13.1	13.4	13.5	13.6	13.7	13.8
100°	12.7	13.4	13.7	13.8	13.9	13.9	13.9
102.5°	16.4	14.6	13.8	13.9	13.9	14.1	14.2
105°	33.6	20.5	14.0	14.2	14.3	14.5	14.6
107.5°	104.9	95.3	85.5	75.7	65.8	55.9	46.0
110°	142.9	140.4	133.9	123.4	112.7	102.2	91.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	167.1	167.2	166.1	163.8	161.6	159.4	157.1
115°	193.4	194.2	194.6	194.9	195.3	195.6	195.9
117.5°	216.4	217.0	217.4	217.4	217.4	217.5	217.5
120°	231.6	232.1	232.5	232.5	232.5	232.5	232.5
122.5°	246.3	246.7	246.9	246.9	247.0	247.0	247.1
125°	266.9	267.0	267.2	267.3	267.5	267.7	267.8
127.5°	287.9	288.2	288.2	288.0	287.9	287.8	287.7
130°	300.7	301.0	301.0	300.9	300.8	300.6	300.4
132.5°	312.6	312.9	313.0	312.7	312.5	312.4	312.2
135°	330.7	330.9	330.9	330.7	330.5	330.3	330.1
137.5°	347.0	347.4	347.5	347.3	347.2	347.0	346.9
140°	357.2	357.6	357.6	357.5	357.3	357.2	357.0
142.5°	366.9	367.2	367.2	367.0	366.7	366.6	366.4
145°	380.5	380.6	380.7	380.7	380.7	380.7	380.7
147.5°	392.7	392.9	392.8	392.4	392.0	391.7	391.3
150°	400.1	400.3	400.2	400.0	399.8	399.5	399.4
152.5°	406.9	407.2	407.1	406.8	406.4	406.0	405.8
155°	416.1	416.5	416.4	416.0	415.6	415.1	414.6
157.5°	424.1	424.6	424.5	424.0	423.4	422.7	422.2
160°	428.7	429.1	429.0	428.6	428.0	427.5	427.0
162.5°	432.8	433.3	433.4	432.9	432.4	432.0	431.5
165°	438.5	439.0	439.0	438.6	438.0	437.5	437.0
167.5°	442.7	443.3	443.3	442.7	442.1	441.5	440.9
170°	445.1	445.6	445.6	445.1	444.5	443.9	443.3
172.5°	446.7	447.2	447.2	446.6	445.9	445.3	444.6
175°	448.6	449.0	449.0	448.5	447.8	447.2	446.7
177.5°	449.2	449.7	449.6	449.0	448.5	447.8	447.2
180°	448.3	448.3	448.3	448.3	448.3	448.3	448.3

(END OF REPORT)