

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: P333080-927

Luminaire Tested: **S124RDIW-S1020D770U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333080-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S1020D770U927-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 770 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5547.3 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

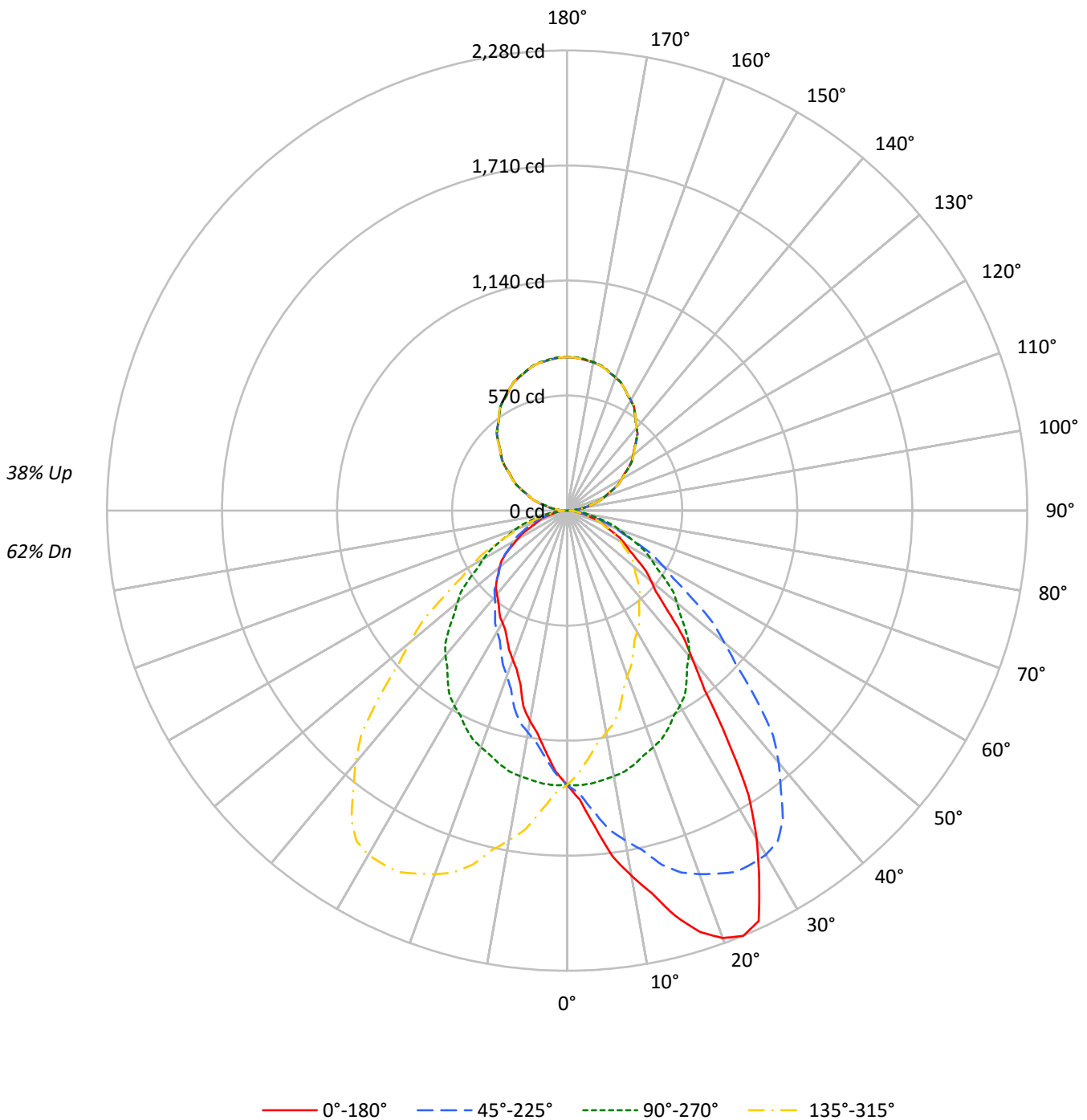
Input Watts (W): 53.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	97	93	90	95	91	88	85	80	77	75	70	68	66	60	59	58	53
2	92	85	79	74	86	80	75	70	71	67	63	62	59	56	54	52	50	46
3	85	75	68	63	79	71	65	60	63	58	54	55	51	48	48	45	43	39
4	78	67	59	53	73	63	56	51	56	51	46	49	45	42	43	40	37	34
5	72	60	52	46	67	57	50	44	51	45	40	45	40	37	39	36	33	30
6	66	54	46	40	62	51	44	39	46	40	35	41	36	32	36	32	29	26
7	61	49	41	36	57	47	39	34	42	36	31	37	32	29	33	29	26	24
8	57	45	37	32	53	42	35	31	38	32	28	34	29	26	30	26	23	21
9	53	41	34	28	50	39	32	27	35	29	25	31	27	23	28	24	21	19
10	50	38	30	26	47	36	29	25	32	27	23	29	24	21	26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10973	10973	10973	10973
5°	12729	11006	9728	11006
10°	15057	10958	8682	10958
15°	17393	10857	7460	10857
20°	19365	10717	6747	10717
25°	19991	10580	6263	10580
30°	17500	10414	5972	10414
35°	13623	10168	5797	10168
40°	10215	9886	5702	9886
45°	8066	9435	5651	9435
50°	6810	8913	5488	8913
55°	5935	8341	5195	8341
60°	5339	7745	4598	7745
65°	4707	7104	3954	7104
70°	4239	6437	3567	6437
75°	3553	5705	3041	5705
80°	3003	4863	2850	4863
85°	2538	3798	2538	3798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	2.4
10°-20°	397.3	7.2
20°-30°	621.4	11.2
30°-40°	690.7	12.5
40°-50°	612.9	11.0
50°-60°	477.6	8.6
60°-70°	312.7	5.6
70°-80°	153.8	2.8
80°-90°	40.2	0.7
90°-100°	50.1	0.9
100°-110°	148.5	2.7
110°-120°	252.1	4.5
120°-130°	332.4	6.0
130°-140°	373.3	6.7
140°-150°	366.9	6.6
150°-160°	308.6	5.6
160°-170°	205.3	3.7
170°-180°	71.9	1.3
0°-30°	1150.3	20.7
0°-40°	1841.1	33.2
0°-60°	2931.5	52.8
0°-90°	3438.1	62.0
90°-120°	450.8	8.1
90°-150°	1523.4	27.5
90°-180°	2109.0	38.0
0°-180°	5547.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1359	1359	1359	1359	1359	
5°	1571	1358	1200	1358	1571	159
15°	2081	1299	893	1299	2081	592
25°	2244	1188	703	1188	2244	996
35°	1382	1032	588	1032	1382	866
45°	706	826	495	826	706	560
55°	422	593	369	593	422	384
65°	246	372	207	372	246	248
75°	114	183	98	183	114	125
85°	27	41	27	41	27	31
90°	18	2	18	2	18	10
95°	46	35	46	35	46	48
105°	144	137	144	137	144	151
115°	254	256	254	256	254	251
125°	370	373	370	373	370	330
135°	482	482	482	482	482	372
145°	586	585	586	585	586	366
155°	670	670	670	670	670	308
165°	728	730	728	730	728	205
175°	756	759	756	759	756	72
180°	760	760	760	760	760	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1433.7	1437.7	1433.7	1433.3	1428.9	1427.6	1425.8	1420.1	1409.6	1403.5	1404.8
5°	1570.7	1584.3	1576.7	1575.6	1563.5	1551.5	1543.8	1526.3	1507.7	1495.1	1484.6
7.5°	1729.0	1736.9	1732.1	1724.4	1704.9	1693.8	1676.1	1653.0	1619.6	1594.0	1570.7
10°	1836.8	1843.3	1841.2	1826.9	1812.7	1783.7	1767.2	1735.0	1692.7	1659.4	1628.1
12.5°	1942.8	1949.8	1930.5	1931.2	1904.2	1881.4	1855.3	1814.7	1765.9	1722.8	1683.8
15°	2081.1	2072.3	2072.3	2061.3	2031.2	1999.5	1972.6	1929.9	1868.5	1817.0	1762.8
17.5°	2189.3	2192.3	2187.8	2161.9	2138.3	2105.5	2056.3	2006.4	1949.5	1880.4	1825.0
20°	2254.1	2254.1	2249.2	2231.7	2201.0	2165.9	2112.8	2058.6	1986.3	1916.8	1854.3
22.5°	2280.4	2282.1	2276.3	2261.8	2234.3	2200.0	2154.8	2099.8	2025.3	1946.9	1869.6
25°	2244.3	2254.6	2255.7	2251.9	2243.7	2222.9	2184.0	2127.6	2060.8	1975.9	1892.6
27.5°	2060.5	2073.6	2085.1	2104.0	2129.2	2142.4	2144.1	2115.4	2057.1	1975.5	1891.7
30°	1877.3	1888.2	1923.9	1970.4	2006.5	2039.4	2067.9	2075.5	2042.7	1969.3	1881.1
32.5°	1674.0	1688.9	1724.5	1774.6	1834.8	1890.5	1954.4	1987.0	1986.2	1942.1	1860.5
35°	1382.3	1393.2	1426.1	1478.6	1550.9	1633.6	1735.0	1813.8	1867.4	1863.6	1813.8
37.5°	1114.8	1127.1	1160.3	1204.0	1274.1	1376.4	1474.5	1583.1	1682.4	1738.1	1721.4
40°	969.3	969.9	1002.2	1047.1	1112.8	1202.1	1308.8	1429.3	1539.9	1630.3	1647.8
42.5°	854.5	854.6	876.0	924.4	971.8	1055.7	1157.7	1277.3	1406.8	1511.2	1557.6
45°	706.5	711.4	728.9	758.0	795.2	866.3	947.9	1059.1	1204.3	1328.0	1405.3
47.5°	598.3	605.5	616.6	640.3	669.9	717.4	784.9	884.8	1002.8	1139.0	1248.9
50°	542.2	543.3	557.5	570.6	596.4	634.1	693.3	776.6	884.9	1015.9	1138.0
52.5°	494.0	493.8	502.3	519.0	539.9	569.3	617.1	692.8	789.0	906.3	1032.4
55°	421.7	424.5	431.0	444.1	460.0	480.9	518.6	575.6	651.2	751.4	865.9
57.5°	366.7	368.1	373.3	378.8	393.4	408.5	436.9	476.4	540.2	622.3	728.9
60°	330.7	331.3	333.0	341.2	352.7	366.9	386.1	419.5	473.2	548.2	632.6
62.5°	295.7	296.7	299.2	305.2	314.1	324.0	344.0	370.9	415.3	479.4	555.4
65°	246.4	247.0	250.8	253.0	260.2	268.9	283.7	301.7	332.4	386.1	443.6
67.5°	205.9	205.9	206.1	209.1	214.0	219.8	228.7	243.1	266.3	299.2	349.9
70°	179.6	179.6	180.7	182.4	185.1	190.0	195.0	205.9	222.9	249.7	288.6
72.5°	155.1	155.5	156.6	156.9	158.4	162.4	166.0	173.1	185.7	205.9	237.3
75°	113.9	115.6	118.3	120.5	123.2	122.7	126.5	130.9	134.8	146.8	164.9
77.5°	84.8	83.9	84.2	86.1	86.4	87.0	89.7	93.1	95.9	101.6	108.1
80°	64.6	64.6	66.2	66.8	66.2	66.8	69.6	71.2	72.3	74.5	80.5
82.5°	48.9	49.7	49.2	49.7	50.1	50.6	52.9	53.2	54.3	55.2	57.8
85°	27.4	28.0	28.4	27.4	27.4	27.4	28.4	29.0	30.1	29.5	30.7
87.5°	13.2	12.7	13.1	13.0	13.4	12.8	13.2	13.9	12.8	13.1	12.9
90°	17.7	17.3	17.1	16.9	16.6	16.1	15.3	14.5	13.7	12.9	11.9
92.5°	26.1	26.0	25.8	25.7	25.5	25.2	24.7	24.2	23.8	23.3	22.6
95°	46.4	46.4	46.4	46.4	46.4	46.3	45.9	45.5	45.1	44.7	43.8
97.5°	72.8	72.8	72.8	72.8	72.8	72.6	72.1	71.6	71.1	70.7	69.6
100°	91.1	91.1	91.1	91.1	91.1	91.0	90.7	90.5	90.2	90.0	88.8
102.5°	111.9	111.7	111.6	111.5	111.4	111.1	110.8	110.4	110.1	109.7	108.6
105°	143.5	143.1	142.7	142.3	141.9	141.5	141.1	140.7	140.3	139.9	139.4
107.5°	174.3	174.3	174.4	174.4	174.4	174.2	173.8	173.5	173.1	172.8	172.7
110°	196.4	196.0	195.6	195.2	194.8	194.7	195.0	195.3	195.5	195.7	195.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	219.0	218.9	218.8	218.7	218.6	218.6	218.6	218.7	218.8	218.8	219.0
115°	254.0	254.1	254.3	254.4	254.5	254.6	254.8	254.9	255.0	255.2	255.4
117.5°	287.4	287.6	287.9	288.2	288.4	288.8	289.2	289.7	290.1	290.6	290.7
120°	312.8	312.5	312.3	312.0	311.7	312.0	312.6	313.2	313.9	314.6	315.0
122.5°	334.0	334.5	334.9	335.3	335.8	336.3	336.8	337.2	337.6	338.1	338.3
125°	370.4	370.7	370.9	371.2	371.5	371.7	372.0	372.2	372.5	372.7	372.9
127.5°	404.2	404.3	404.6	404.8	405.0	405.2	405.5	405.8	406.0	406.3	406.5
130°	426.3	426.7	427.3	427.9	428.3	428.7	429.0	429.3	429.5	429.8	429.8
132.5°	449.8	450.0	450.2	450.4	450.6	450.8	451.1	451.4	451.6	451.9	452.0
135°	482.1	482.5	482.9	483.3	483.7	484.0	484.3	484.5	484.8	485.1	485.1
137.5°	516.1	516.0	515.9	515.9	515.8	515.9	516.3	516.6	516.9	517.3	517.1
140°	536.8	536.9	537.0	537.2	537.3	537.4	537.6	537.7	537.8	538.0	538.0
142.5°	557.5	557.5	557.5	557.5	557.6	557.6	557.6	557.7	557.7	557.7	557.9
145°	585.6	586.0	586.4	586.8	587.2	587.4	587.6	587.7	587.8	588.0	587.8
147.5°	614.0	614.2	614.3	614.4	614.6	614.7	614.8	614.9	615.0	615.1	615.2
150°	631.4	631.6	631.7	631.8	632.0	632.1	632.1	632.1	632.1	632.1	632.1
152.5°	647.5	647.8	648.2	648.5	648.8	648.8	648.5	648.2	647.8	647.5	647.5
155°	669.7	670.2	670.7	671.2	671.8	671.8	671.2	670.7	670.2	669.7	669.8
157.5°	689.5	690.0	690.5	690.9	691.3	691.3	690.9	690.5	690.1	689.8	689.8
160°	700.8	701.5	702.1	702.8	703.5	703.6	703.2	702.8	702.4	702.0	702.1
162.5°	712.6	713.3	713.9	714.5	715.2	715.2	714.5	713.8	713.0	712.3	712.5
165°	727.9	728.4	728.9	729.4	730.0	729.8	729.0	728.3	727.5	726.7	727.0
167.5°	738.8	739.7	740.5	741.2	742.0	742.0	741.2	740.5	739.7	738.9	738.9
170°	745.0	745.8	746.8	747.7	748.6	748.7	747.9	747.1	746.3	745.5	745.4
172.5°	750.1	751.0	751.9	752.8	753.8	753.8	752.9	752.0	751.1	750.2	750.2
175°	755.5	756.5	757.3	758.3	759.1	759.1	758.3	757.3	756.5	755.5	755.7
177.5°	758.4	759.1	760.0	760.8	761.7	761.8	761.0	760.3	759.5	758.8	758.8
180°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1400.4	1394.3	1391.2	1384.2	1375.9	1371.5	1367.5	1361.8	1354.4	1346.6	1340.8
5°	1471.5	1458.3	1441.9	1422.2	1404.7	1387.7	1372.9	1358.1	1341.2	1323.7	1306.2
7.5°	1544.4	1518.6	1490.6	1458.3	1427.0	1398.4	1372.1	1346.9	1318.3	1292.8	1269.6
10°	1595.3	1560.2	1521.3	1480.3	1439.2	1403.6	1368.6	1336.8	1301.7	1270.5	1244.2
12.5°	1636.5	1595.3	1548.5	1497.4	1448.0	1404.9	1364.6	1323.2	1283.3	1249.5	1214.4
15°	1704.8	1648.4	1585.4	1524.1	1460.0	1401.4	1347.2	1299.0	1253.5	1205.9	1172.5
17.5°	1751.8	1684.9	1608.3	1534.6	1458.9	1389.8	1327.2	1269.9	1217.4	1168.8	1129.0
20°	1779.8	1705.9	1621.0	1537.2	1452.3	1378.4	1311.1	1247.5	1193.3	1140.7	1099.6
22.5°	1795.6	1713.8	1621.0	1533.3	1445.3	1365.2	1291.3	1225.2	1166.2	1113.6	1068.1
25°	1800.6	1713.0	1618.3	1517.5	1421.1	1336.3	1259.6	1187.8	1122.1	1069.5	1021.4
27.5°	1793.7	1690.4	1593.4	1490.0	1390.6	1301.1	1220.6	1145.3	1079.4	1023.0	973.6
30°	1783.1	1672.5	1568.4	1461.1	1360.3	1274.4	1189.5	1117.2	1048.7	990.1	940.3
32.5°	1760.3	1650.6	1538.7	1428.7	1326.6	1238.0	1157.5	1084.7	1017.6	957.7	904.8
35°	1715.2	1604.0	1482.5	1369.7	1269.4	1177.4	1101.8	1031.7	967.7	903.6	847.7
37.5°	1655.7	1542.1	1421.3	1297.7	1197.4	1110.5	1041.2	975.3	912.8	854.3	792.4
40°	1599.7	1496.1	1371.3	1248.6	1145.7	1061.8	997.8	938.1	875.1	817.1	755.2
42.5°	1531.8	1443.6	1317.4	1194.3	1092.7	1011.9	952.2	893.8	836.5	780.3	715.7
45°	1418.4	1351.5	1233.3	1115.0	1012.6	932.6	877.9	826.4	776.0	722.3	661.6
47.5°	1288.5	1243.3	1141.1	1020.0	925.3	853.3	800.4	758.4	715.7	662.1	608.8
50°	1198.3	1169.2	1070.6	960.0	869.7	803.4	749.2	709.7	674.1	622.7	575.0
52.5°	1101.8	1086.4	1003.1	897.4	810.1	745.1	698.8	663.3	627.2	584.6	540.0
55°	955.1	963.3	892.6	801.2	719.1	664.3	622.1	592.6	561.9	525.8	491.2
57.5°	805.0	835.0	787.6	707.3	630.3	579.7	548.0	523.1	497.3	467.4	437.9
60°	715.2	740.4	713.6	642.9	575.6	528.5	498.9	479.7	454.0	426.6	404.2
62.5°	627.6	654.5	638.7	581.6	519.0	478.6	452.5	434.6	415.4	391.6	368.2
65°	517.5	535.0	527.4	488.0	443.6	409.1	385.0	371.9	354.3	336.8	316.0
67.5°	396.4	430.2	425.7	404.8	366.5	339.5	323.8	312.1	296.2	283.1	269.0
70°	325.8	357.0	356.5	339.5	318.7	293.5	282.6	272.7	258.5	245.9	234.4
72.5°	266.7	295.3	299.5	286.5	272.3	253.3	242.7	235.9	222.1	213.5	204.1
75°	186.7	207.6	213.0	213.0	206.4	196.6	187.3	182.9	173.1	165.4	159.9
77.5°	122.5	135.6	144.2	146.1	147.1	143.8	136.2	133.1	125.5	122.8	117.6
80°	86.5	95.3	105.1	108.4	111.1	110.1	106.8	104.6	97.5	94.7	92.5
82.5°	59.8	64.6	72.7	79.9	79.2	82.1	79.2	77.5	72.1	71.1	68.9
85°	31.2	31.8	32.9	37.8	40.6	41.6	42.1	41.0	39.5	39.5	35.6
87.5°	12.7	12.0	12.7	12.4	12.6	14.1	15.1	15.2	14.3	13.2	12.2
90°	10.9	9.8	8.8	7.5	6.1	4.7	3.2	1.7	3.2	4.7	6.1
92.5°	21.8	21.1	20.4	19.2	17.5	15.8	14.3	12.6	14.3	15.8	17.5
95°	42.9	41.9	41.0	40.0	38.8	37.6	36.4	35.3	36.4	37.6	38.8
97.5°	68.5	67.5	66.4	65.4	64.4	63.5	62.6	61.6	62.6	63.5	64.4
100°	87.6	86.4	85.2	84.4	83.9	83.3	82.9	82.3	82.9	83.3	83.9
102.5°	107.6	106.5	105.4	104.8	104.6	104.3	104.2	103.9	104.2	104.3	104.6
105°	138.9	138.4	137.8	137.5	137.4	137.3	137.1	137.0	137.1	137.3	137.4
107.5°	172.6	172.5	172.5	172.3	172.1	172.0	171.8	171.7	171.8	172.0	172.1
110°	196.1	196.1	196.3	196.2	196.0	195.7	195.4	195.2	195.4	195.7	196.0



TEST NUMBER: P333080-927

CATALOG NUMBER: S124RDIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	219.3	219.5	219.8	219.8	219.8	219.8	219.7	219.7	219.7	219.8	219.8
115°	255.7	256.0	256.2	256.4	256.4	256.4	256.4	256.4	256.4	256.4	256.4
117.5°	291.0	291.1	291.3	291.4	291.2	291.1	291.0	290.9	291.0	291.1	291.2
120°	315.4	315.8	316.1	316.1	315.5	315.0	314.5	313.9	314.5	315.0	315.5
122.5°	338.4	338.7	338.8	338.8	338.6	338.3	338.2	337.9	338.2	338.3	338.6
125°	373.0	373.1	373.3	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
127.5°	406.7	406.9	407.1	407.0	406.6	406.2	405.8	405.4	405.8	406.2	406.6
130°	429.8	429.8	429.8	429.6	429.2	428.8	428.4	428.0	428.4	428.8	429.2
132.5°	452.1	452.2	452.3	452.3	451.9	451.6	451.4	451.1	451.4	451.6	451.9
135°	485.1	485.1	485.1	484.7	483.9	483.1	482.3	481.6	482.3	483.1	483.9
137.5°	516.8	516.7	516.4	516.2	515.8	515.4	515.1	514.7	515.1	515.4	515.8
140°	538.0	538.0	538.0	537.8	537.6	537.3	537.0	536.8	537.0	537.3	537.6
142.5°	557.9	558.0	558.2	558.1	557.8	557.5	557.3	557.0	557.3	557.5	557.8
145°	587.7	587.6	587.4	587.1	586.6	586.1	585.5	585.0	585.5	586.1	586.6
147.5°	615.3	615.4	615.5	615.3	614.7	614.0	613.4	612.8	613.4	614.0	614.7
150°	632.1	632.1	632.1	631.8	631.3	630.7	630.2	629.7	630.2	630.7	631.3
152.5°	647.4	647.2	647.1	647.0	646.7	646.3	646.0	645.7	646.0	646.3	646.7
155°	669.9	670.0	670.2	670.3	670.3	670.3	670.3	670.3	670.3	670.3	670.3
157.5°	689.8	689.8	689.9	690.0	690.2	690.5	690.7	690.9	690.7	690.5	690.2
160°	702.3	702.4	702.5	702.7	702.8	702.9	703.1	703.2	703.1	702.9	702.8
162.5°	712.6	712.7	712.9	713.1	713.4	713.8	714.2	714.5	714.2	713.8	713.4
165°	727.2	727.5	727.8	728.1	728.5	728.9	729.3	729.7	729.3	728.9	728.5
167.5°	738.9	738.9	738.8	739.1	739.7	740.2	740.8	741.2	740.8	740.2	739.7
170°	745.3	745.1	745.0	745.3	745.9	746.6	747.2	747.9	747.2	746.6	745.9
172.5°	750.2	750.1	750.1	750.4	750.9	751.5	752.0	752.6	752.0	751.5	750.9
175°	755.7	755.9	756.1	756.5	757.1	757.7	758.4	759.1	758.4	757.7	757.1
177.5°	758.8	758.8	758.8	759.1	759.6	760.1	760.7	761.1	760.7	760.1	759.6
180°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2



TEST NUMBER: P333080-927

CATALOG NUMBER: S124RDIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1334.7	1330.3	1324.6	1318.0	1310.2	1303.1	1300.1	1302.7	1304.0	1300.5	1300.1
5°	1294.1	1280.4	1269.4	1253.0	1239.8	1228.9	1221.2	1218.0	1219.0	1210.3	1208.1
7.5°	1248.4	1232.2	1214.3	1194.7	1176.5	1160.5	1152.0	1147.4	1138.1	1134.2	1127.5
10°	1219.0	1197.1	1179.6	1156.6	1135.8	1116.7	1107.3	1099.6	1090.4	1086.0	1076.7
12.5°	1188.8	1163.4	1144.1	1120.2	1099.0	1075.9	1067.0	1052.8	1038.2	1029.0	1017.1
15°	1146.2	1115.6	1092.0	1063.5	1038.3	1012.0	988.5	962.2	952.4	931.5	919.5
17.5°	1096.4	1065.2	1036.1	997.9	959.0	926.4	901.3	876.1	861.0	847.7	841.6
20°	1063.5	1035.1	994.5	950.1	906.9	870.8	850.5	834.1	817.6	808.3	801.8
22.5°	1032.4	996.0	949.0	901.1	857.9	829.6	812.4	795.5	782.1	773.2	764.5
25°	980.2	932.6	882.8	828.1	798.4	773.8	755.2	741.5	733.3	721.8	717.4
27.5°	926.7	869.0	814.0	777.2	746.4	723.9	707.7	697.4	687.0	679.6	673.9
30°	885.5	827.0	777.7	742.6	711.4	692.8	679.6	667.6	659.3	653.3	649.0
32.5°	844.8	786.2	744.8	707.1	682.5	664.3	650.3	641.3	634.9	627.0	624.4
35°	785.8	733.8	697.7	663.8	638.6	622.1	611.2	601.8	596.4	594.2	592.6
37.5°	729.2	686.7	647.8	620.0	597.5	584.6	571.6	567.0	563.3	559.4	561.1
40°	693.3	653.3	618.9	589.2	571.2	557.0	549.3	543.8	540.5	540.5	540.5
42.5°	662.2	623.1	589.5	563.0	544.9	532.8	524.3	519.7	518.6	518.2	520.8
45°	613.9	577.7	543.8	521.9	506.6	494.5	489.6	485.8	485.8	488.0	488.5
47.5°	566.0	532.2	504.9	480.4	466.4	458.8	454.6	452.6	452.8	455.0	457.5
50°	536.7	503.3	476.4	454.6	441.4	434.3	430.5	429.4	430.5	430.5	434.3
52.5°	504.7	474.8	448.4	430.0	415.1	408.4	406.3	404.8	405.4	407.3	408.8
55°	457.8	431.0	405.8	388.2	377.3	373.0	368.0	368.5	367.5	368.5	368.5
57.5°	410.8	386.7	363.3	349.4	339.8	333.4	328.0	329.5	328.0	327.7	326.9
60°	380.6	354.3	335.7	323.1	312.1	306.7	301.7	302.9	301.2	300.1	297.9
62.5°	347.8	325.8	308.1	296.0	287.2	280.8	275.9	274.8	271.0	267.3	262.4
65°	300.1	282.0	266.2	254.7	246.4	241.5	237.7	234.4	226.2	217.4	213.0
67.5°	253.8	240.7	225.9	216.2	209.5	203.0	195.7	190.1	182.4	177.7	174.9
70°	223.9	211.4	198.8	189.5	182.4	176.3	168.1	164.3	158.8	156.6	153.9
72.5°	195.5	183.8	172.1	163.7	156.1	151.4	144.9	141.1	138.6	137.8	135.1
75°	152.3	142.9	134.2	126.5	120.5	117.2	114.5	111.7	110.6	105.7	103.0
77.5°	111.1	105.0	99.4	94.0	89.7	87.5	82.2	79.1	77.2	74.9	74.4
80°	86.5	82.1	76.7	73.4	67.3	65.2	63.0	62.4	61.9	61.3	60.8
82.5°	65.0	60.7	55.2	53.2	51.6	50.3	49.0	48.4	47.8	48.2	48.1
85°	32.9	30.7	30.7	30.1	29.5	29.0	28.4	28.4	28.0	28.4	28.0
87.5°	12.4	12.3	12.4	11.8	12.4	12.7	12.4	12.5	13.2	12.4	12.5
90°	7.5	8.8	9.8	10.9	11.9	12.9	13.7	14.5	15.3	16.1	16.6
92.5°	19.2	20.4	21.1	21.8	22.6	23.3	23.8	24.2	24.7	25.2	25.5
95°	40.0	41.0	41.9	42.9	43.8	44.7	45.1	45.5	45.9	46.3	46.4
97.5°	65.4	66.4	67.5	68.5	69.6	70.7	71.1	71.6	72.1	72.6	72.8
100°	84.4	85.2	86.4	87.6	88.8	90.0	90.2	90.5	90.7	91.0	91.1
102.5°	104.8	105.4	106.5	107.6	108.6	109.7	110.1	110.4	110.8	111.1	111.4
105°	137.5	137.8	138.4	138.9	139.4	139.9	140.3	140.7	141.1	141.5	141.9
107.5°	172.3	172.5	172.5	172.6	172.7	172.8	173.1	173.5	173.8	174.2	174.4
110°	196.2	196.3	196.1	196.1	195.9	195.7	195.5	195.3	195.0	194.7	194.8



TEST NUMBER: P333080-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	219.8	219.8	219.5	219.3	219.0	218.8	218.8	218.7	218.6	218.6	218.6
115°	256.4	256.2	256.0	255.7	255.4	255.2	255.0	254.9	254.8	254.6	254.5
117.5°	291.4	291.3	291.1	291.0	290.7	290.6	290.1	289.7	289.2	288.8	288.4
120°	316.1	316.1	315.8	315.4	315.0	314.6	313.9	313.2	312.6	312.0	311.7
122.5°	338.8	338.8	338.7	338.4	338.3	338.1	337.6	337.2	336.8	336.3	335.8
125°	373.4	373.3	373.1	373.0	372.9	372.7	372.5	372.2	372.0	371.7	371.5
127.5°	407.0	407.1	406.9	406.7	406.5	406.3	406.0	405.8	405.5	405.2	405.0
130°	429.6	429.8	429.8	429.8	429.8	429.8	429.5	429.3	429.0	428.7	428.3
132.5°	452.3	452.3	452.2	452.1	452.0	451.9	451.6	451.4	451.1	450.8	450.6
135°	484.7	485.1	485.1	485.1	485.1	485.1	484.8	484.5	484.3	484.0	483.7
137.5°	516.2	516.4	516.7	516.8	517.1	517.3	516.9	516.6	516.3	515.9	515.8
140°	537.8	538.0	538.0	538.0	538.0	538.0	537.8	537.7	537.6	537.4	537.3
142.5°	558.1	558.2	558.0	557.9	557.9	557.7	557.7	557.7	557.6	557.6	557.6
145°	587.1	587.4	587.6	587.7	587.8	588.0	587.8	587.7	587.6	587.4	587.2
147.5°	615.3	615.5	615.4	615.3	615.2	615.1	615.0	614.9	614.8	614.7	614.6
150°	631.8	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.1	632.0
152.5°	647.0	647.1	647.2	647.4	647.5	647.5	647.8	648.2	648.5	648.8	648.8
155°	670.3	670.2	670.0	669.9	669.8	669.7	670.2	670.7	671.2	671.8	671.8
157.5°	690.0	689.9	689.8	689.8	689.8	689.8	690.1	690.5	690.9	691.3	691.3
160°	702.7	702.5	702.4	702.3	702.1	702.0	702.4	702.8	703.2	703.6	703.5
162.5°	713.1	712.9	712.7	712.6	712.5	712.3	713.0	713.8	714.5	715.2	715.2
165°	728.1	727.8	727.5	727.2	727.0	726.7	727.5	728.3	729.0	729.8	730.0
167.5°	739.1	738.8	738.9	738.9	738.9	738.9	739.7	740.5	741.2	742.0	742.0
170°	745.3	745.0	745.1	745.3	745.4	745.5	746.3	747.1	747.9	748.7	748.6
172.5°	750.4	750.1	750.1	750.2	750.2	750.2	751.1	752.0	752.9	753.8	753.8
175°	756.5	756.1	755.9	755.7	755.7	755.5	756.5	757.3	758.3	759.1	759.1
177.5°	759.1	758.8	758.8	758.8	758.8	758.8	759.5	760.3	761.0	761.8	761.7
180°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2



TEST NUMBER: P333080-927

CATALOG NUMBER: S124RDIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1297.4	1298.3	1295.3	1294.4	1295.3	1298.3	1297.4	1300.1	1300.5	1304.0	1302.7
5°	1203.7	1202.6	1199.8	1200.4	1199.8	1202.6	1203.7	1208.1	1210.3	1219.0	1218.0
7.5°	1123.6	1119.3	1120.5	1116.1	1120.5	1119.3	1123.6	1127.5	1134.2	1138.1	1147.4
10°	1074.4	1068.4	1063.5	1059.1	1063.5	1068.4	1074.4	1076.7	1086.0	1090.4	1099.6
12.5°	1007.4	1002.3	995.6	997.0	995.6	1002.3	1007.4	1017.1	1029.0	1038.2	1052.8
15°	912.4	904.1	891.0	892.6	891.0	904.1	912.4	919.5	931.5	952.4	962.2
17.5°	831.9	831.9	825.9	827.4	825.9	831.9	831.9	841.6	847.7	861.0	876.1
20°	790.3	786.4	787.0	785.3	787.0	786.4	790.3	801.8	808.3	817.6	834.1
22.5°	761.4	756.6	752.8	749.4	752.8	756.6	761.4	764.5	773.2	782.1	795.5
25°	712.5	709.2	704.3	703.1	704.3	709.2	712.5	717.4	721.8	733.3	741.5
27.5°	669.6	668.9	666.9	664.4	666.9	668.9	669.6	673.9	679.6	687.0	697.4
30°	644.6	643.5	642.4	640.7	642.4	643.5	644.6	649.0	653.3	659.3	667.6
32.5°	622.3	621.5	620.4	620.6	620.4	621.5	622.3	624.4	627.0	634.9	641.3
35°	590.3	589.8	588.7	588.2	588.7	589.8	590.3	592.6	594.2	596.4	601.8
37.5°	560.5	562.0	561.3	561.2	561.3	562.0	560.5	561.1	559.4	563.3	567.0
40°	540.0	540.5	541.6	541.1	541.6	540.5	540.0	540.5	540.5	540.5	543.8
42.5°	522.9	523.0	524.5	522.7	524.5	523.0	522.9	520.8	518.2	518.6	519.7
45°	492.3	495.6	495.0	495.0	495.0	495.6	492.3	488.5	488.0	485.8	485.8
47.5°	458.9	461.8	462.6	462.4	462.6	461.8	458.9	457.5	455.0	452.8	452.6
50°	437.0	435.9	437.6	437.0	437.6	435.9	437.0	434.3	430.5	430.5	429.4
52.5°	410.3	410.5	410.4	409.9	410.4	410.5	410.3	408.8	407.3	405.4	404.8
55°	369.1	369.6	368.5	369.1	368.5	369.6	369.1	368.5	368.5	367.5	368.5
57.5°	324.4	321.8	322.9	321.5	322.9	321.8	324.4	326.9	327.7	328.0	329.5
60°	292.5	288.0	286.9	284.8	286.9	288.0	292.5	297.9	300.1	301.2	302.9
62.5°	256.5	253.4	249.7	251.4	249.7	253.4	256.5	262.4	267.3	271.0	274.8
65°	208.7	206.4	204.8	207.0	204.8	206.4	208.7	213.0	217.4	226.2	234.4
67.5°	172.7	171.5	171.5	170.4	171.5	171.5	172.7	174.9	177.7	182.4	190.1
70°	153.9	152.3	152.3	151.1	152.3	152.3	153.9	153.9	156.6	158.8	164.3
72.5°	134.6	132.9	133.4	132.8	133.4	132.9	134.6	135.1	137.8	138.6	141.1
75°	99.7	97.0	97.0	97.5	97.0	97.0	99.7	103.0	105.7	110.6	111.7
77.5°	74.4	73.8	74.6	73.6	74.6	73.8	74.4	74.4	74.9	77.2	79.1
80°	60.8	60.2	59.7	61.3	59.7	60.2	60.8	60.8	61.3	61.9	62.4
82.5°	47.2	47.1	47.0	49.0	47.0	47.1	47.2	48.1	48.2	47.8	48.4
85°	28.4	27.4	28.4	27.4	28.4	27.4	28.4	28.0	28.4	28.0	28.4
87.5°	13.5	13.1	12.7	13.2	12.7	13.1	13.5	12.5	12.4	13.2	12.5
90°	16.9	17.1	17.3	17.7	17.3	17.1	16.9	16.6	16.1	15.3	14.5
92.5°	25.7	25.8	26.0	26.1	26.0	25.8	25.7	25.5	25.2	24.7	24.2
95°	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.3	45.9	45.5
97.5°	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.6	72.1	71.6
100°	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.0	90.7	90.5
102.5°	111.5	111.6	111.7	111.9	111.7	111.6	111.5	111.4	111.1	110.8	110.4
105°	142.3	142.7	143.1	143.5	143.1	142.7	142.3	141.9	141.5	141.1	140.7
107.5°	174.4	174.4	174.3	174.3	174.3	174.4	174.4	174.4	174.2	173.8	173.5
110°	195.2	195.6	196.0	196.4	196.0	195.6	195.2	194.8	194.7	195.0	195.3



TEST NUMBER: P333080-927

CATALOG NUMBER: S124RDIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	218.7	218.8	218.9	219.0	218.9	218.8	218.7	218.6	218.6	218.6	218.7
115°	254.4	254.3	254.1	254.0	254.1	254.3	254.4	254.5	254.6	254.8	254.9
117.5°	288.2	287.9	287.6	287.4	287.6	287.9	288.2	288.4	288.8	289.2	289.7
120°	312.0	312.3	312.5	312.8	312.5	312.3	312.0	311.7	312.0	312.6	313.2
122.5°	335.3	334.9	334.5	334.0	334.5	334.9	335.3	335.8	336.3	336.8	337.2
125°	371.2	370.9	370.7	370.4	370.7	370.9	371.2	371.5	371.7	372.0	372.2
127.5°	404.8	404.6	404.3	404.2	404.3	404.6	404.8	405.0	405.2	405.5	405.8
130°	427.9	427.3	426.7	426.3	426.7	427.3	427.9	428.3	428.7	429.0	429.3
132.5°	450.4	450.2	450.0	449.8	450.0	450.2	450.4	450.6	450.8	451.1	451.4
135°	483.3	482.9	482.5	482.1	482.5	482.9	483.3	483.7	484.0	484.3	484.5
137.5°	515.9	515.9	516.0	516.1	516.0	515.9	515.9	515.8	515.9	516.3	516.6
140°	537.2	537.0	536.9	536.8	536.9	537.0	537.2	537.3	537.4	537.6	537.7
142.5°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.6	557.6	557.6	557.7
145°	586.8	586.4	586.0	585.6	586.0	586.4	586.8	587.2	587.4	587.6	587.7
147.5°	614.4	614.3	614.2	614.0	614.2	614.3	614.4	614.6	614.7	614.8	614.9
150°	631.8	631.7	631.6	631.4	631.6	631.7	631.8	632.0	632.1	632.1	632.1
152.5°	648.5	648.2	647.8	647.5	647.8	648.2	648.5	648.8	648.8	648.5	648.2
155°	671.2	670.7	670.2	669.7	670.2	670.7	671.2	671.8	671.8	671.2	670.7
157.5°	690.9	690.5	690.0	689.5	690.0	690.5	690.9	691.3	691.3	690.9	690.5
160°	702.8	702.1	701.5	700.8	701.5	702.1	702.8	703.5	703.6	703.2	702.8
162.5°	714.5	713.9	713.3	712.6	713.3	713.9	714.5	715.2	715.2	714.5	713.8
165°	729.4	728.9	728.4	727.9	728.4	728.9	729.4	730.0	729.8	729.0	728.3
167.5°	741.2	740.5	739.7	738.8	739.7	740.5	741.2	742.0	742.0	741.2	740.5
170°	747.7	746.8	745.8	745.0	745.8	746.8	747.7	748.6	748.7	747.9	747.1
172.5°	752.8	751.9	751.0	750.1	751.0	751.9	752.8	753.8	753.8	752.9	752.0
175°	758.3	757.3	756.5	755.5	756.5	757.3	758.3	759.1	759.1	758.3	757.3
177.5°	760.8	760.0	759.1	758.4	759.1	760.0	760.8	761.7	761.8	761.0	760.3
180°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2



TEST NUMBER: P333080-927

CATALOG NUMBER: S124RDIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1300.1	1303.1	1310.2	1318.0	1324.6	1330.3	1334.7	1340.8	1346.6	1354.4	1361.8
5°	1221.2	1228.9	1239.8	1253.0	1269.4	1280.4	1294.1	1306.2	1323.7	1341.2	1358.1
7.5°	1152.0	1160.5	1176.5	1194.7	1214.3	1232.2	1248.4	1269.6	1292.8	1318.3	1346.9
10°	1107.3	1116.7	1135.8	1156.6	1179.6	1197.1	1219.0	1244.2	1270.5	1301.7	1336.8
12.5°	1067.0	1075.9	1099.0	1120.2	1144.1	1163.4	1188.8	1214.4	1249.5	1283.3	1323.2
15°	988.5	1012.0	1038.3	1063.5	1092.0	1115.6	1146.2	1172.5	1205.9	1253.5	1299.0
17.5°	901.3	926.4	959.0	997.9	1036.1	1065.2	1096.4	1129.0	1168.8	1217.4	1269.9
20°	850.5	870.8	906.9	950.1	994.5	1035.1	1063.5	1099.6	1140.7	1193.3	1247.5
22.5°	812.4	829.6	857.9	901.1	949.0	996.0	1032.4	1068.1	1113.6	1166.2	1225.2
25°	755.2	773.8	798.4	828.1	882.8	932.6	980.2	1021.4	1069.5	1122.1	1187.8
27.5°	707.7	723.9	746.4	777.2	814.0	869.0	926.7	973.6	1023.0	1079.4	1145.3
30°	679.6	692.8	711.4	742.6	777.7	827.0	885.5	940.3	990.1	1048.7	1117.2
32.5°	650.3	664.3	682.5	707.1	744.8	786.2	844.8	904.8	957.7	1017.6	1084.7
35°	611.2	622.1	638.6	663.8	697.7	733.8	785.8	847.7	903.6	967.7	1031.7
37.5°	571.6	584.6	597.5	620.0	647.8	686.7	729.2	792.4	854.3	912.8	975.3
40°	549.3	557.0	571.2	589.2	618.9	653.3	693.3	755.2	817.1	875.1	938.1
42.5°	524.3	532.8	544.9	563.0	589.5	623.1	662.2	715.7	780.3	836.5	893.8
45°	489.6	494.5	506.6	521.9	543.8	577.7	613.9	661.6	722.3	776.0	826.4
47.5°	454.6	458.8	466.4	480.4	504.9	532.2	566.0	608.8	662.1	715.7	758.4
50°	430.5	434.3	441.4	454.6	476.4	503.3	536.7	575.0	622.7	674.1	709.7
52.5°	406.3	408.4	415.1	430.0	448.4	474.8	504.7	540.0	584.6	627.2	663.3
55°	368.0	373.0	377.3	388.2	405.8	431.0	457.8	491.2	525.8	561.9	592.6
57.5°	328.0	333.4	339.8	349.4	363.3	386.7	410.8	437.9	467.4	497.3	523.1
60°	301.7	306.7	312.1	323.1	335.7	354.3	380.6	404.2	426.6	454.0	479.7
62.5°	275.9	280.8	287.2	296.0	308.1	325.8	347.8	368.2	391.6	415.4	434.6
65°	237.7	241.5	246.4	254.7	266.2	282.0	300.1	316.0	336.8	354.3	371.9
67.5°	195.7	203.0	209.5	216.2	225.9	240.7	253.8	269.0	283.1	296.2	312.1
70°	168.1	176.3	182.4	189.5	198.8	211.4	223.9	234.4	245.9	258.5	272.7
72.5°	144.9	151.4	156.1	163.7	172.1	183.8	195.5	204.1	213.5	222.1	235.9
75°	114.5	117.2	120.5	126.5	134.2	142.9	152.3	159.9	165.4	173.1	182.9
77.5°	82.2	87.5	89.7	94.0	99.4	105.0	111.1	117.6	122.8	125.5	133.1
80°	63.0	65.2	67.3	73.4	76.7	82.1	86.5	92.5	94.7	97.5	104.6
82.5°	49.0	50.3	51.6	53.2	55.2	60.7	65.0	68.9	71.1	72.1	77.5
85°	28.4	29.0	29.5	30.1	30.7	30.7	32.9	35.6	39.5	39.5	41.0
87.5°	12.4	12.7	12.4	11.8	12.4	12.3	12.4	12.2	13.2	14.3	15.2
90°	13.7	12.9	11.9	10.9	9.8	8.8	7.5	6.1	4.7	3.2	1.7
92.5°	23.8	23.3	22.6	21.8	21.1	20.4	19.2	17.5	15.8	14.3	12.6
95°	45.1	44.7	43.8	42.9	41.9	41.0	40.0	38.8	37.6	36.4	35.3
97.5°	71.1	70.7	69.6	68.5	67.5	66.4	65.4	64.4	63.5	62.6	61.6
100°	90.2	90.0	88.8	87.6	86.4	85.2	84.4	83.9	83.3	82.9	82.3
102.5°	110.1	109.7	108.6	107.6	106.5	105.4	104.8	104.6	104.3	104.2	103.9
105°	140.3	139.9	139.4	138.9	138.4	137.8	137.5	137.4	137.3	137.1	137.0
107.5°	173.1	172.8	172.7	172.6	172.5	172.5	172.3	172.1	172.0	171.8	171.7
110°	195.5	195.7	195.9	196.1	196.1	196.3	196.2	196.0	195.7	195.4	195.2



TEST NUMBER: P333080-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	218.8	218.8	219.0	219.3	219.5	219.8	219.8	219.8	219.8	219.7	219.7
115°	255.0	255.2	255.4	255.7	256.0	256.2	256.4	256.4	256.4	256.4	256.4
117.5°	290.1	290.6	290.7	291.0	291.1	291.3	291.4	291.2	291.1	291.0	290.9
120°	313.9	314.6	315.0	315.4	315.8	316.1	316.1	315.5	315.0	314.5	313.9
122.5°	337.6	338.1	338.3	338.4	338.7	338.8	338.8	338.6	338.3	338.2	337.9
125°	372.5	372.7	372.9	373.0	373.1	373.3	373.4	373.4	373.4	373.4	373.4
127.5°	406.0	406.3	406.5	406.7	406.9	407.1	407.0	406.6	406.2	405.8	405.4
130°	429.5	429.8	429.8	429.8	429.8	429.8	429.6	429.2	428.8	428.4	428.0
132.5°	451.6	451.9	452.0	452.1	452.2	452.3	452.3	451.9	451.6	451.4	451.1
135°	484.8	485.1	485.1	485.1	485.1	485.1	484.7	483.9	483.1	482.3	481.6
137.5°	516.9	517.3	517.1	516.8	516.7	516.4	516.2	515.8	515.4	515.1	514.7
140°	537.8	538.0	538.0	538.0	538.0	538.0	537.8	537.6	537.3	537.0	536.8
142.5°	557.7	557.7	557.9	557.9	558.0	558.2	558.1	557.8	557.5	557.3	557.0
145°	587.8	588.0	587.8	587.7	587.6	587.4	587.1	586.6	586.1	585.5	585.0
147.5°	615.0	615.1	615.2	615.3	615.4	615.5	615.3	614.7	614.0	613.4	612.8
150°	632.1	632.1	632.1	632.1	632.1	632.1	631.8	631.3	630.7	630.2	629.7
152.5°	647.8	647.5	647.5	647.4	647.2	647.1	647.0	646.7	646.3	646.0	645.7
155°	670.2	669.7	669.8	669.9	670.0	670.2	670.3	670.3	670.3	670.3	670.3
157.5°	690.1	689.8	689.8	689.8	689.8	689.9	690.0	690.2	690.5	690.7	690.9
160°	702.4	702.0	702.1	702.3	702.4	702.5	702.7	702.8	702.9	703.1	703.2
162.5°	713.0	712.3	712.5	712.6	712.7	712.9	713.1	713.4	713.8	714.2	714.5
165°	727.5	726.7	727.0	727.2	727.5	727.8	728.1	728.5	728.9	729.3	729.7
167.5°	739.7	738.9	738.9	738.9	738.9	738.8	739.1	739.7	740.2	740.8	741.2
170°	746.3	745.5	745.4	745.3	745.1	745.0	745.3	745.9	746.6	747.2	747.9
172.5°	751.1	750.2	750.2	750.2	750.1	750.1	750.4	750.9	751.5	752.0	752.6
175°	756.5	755.5	755.7	755.7	755.9	756.1	756.5	757.1	757.7	758.4	759.1
177.5°	759.5	758.8	758.8	758.8	758.8	758.8	759.1	759.6	760.1	760.7	761.1
180°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2



TEST NUMBER: P333080-927

CATALOG NUMBER: S124RDIW-S1020D770U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1367.5	1371.5	1375.9	1384.2	1391.2	1394.3	1400.4	1404.8	1403.5	1409.6	1420.1
5°	1372.9	1387.7	1404.7	1422.2	1441.9	1458.3	1471.5	1484.6	1495.1	1507.7	1526.3
7.5°	1372.1	1398.4	1427.0	1458.3	1490.6	1518.6	1544.4	1570.7	1594.0	1619.6	1653.0
10°	1368.6	1403.6	1439.2	1480.3	1521.3	1560.2	1595.3	1628.1	1659.4	1692.7	1735.0
12.5°	1364.6	1404.9	1448.0	1497.4	1548.5	1595.3	1636.5	1683.8	1722.8	1765.9	1814.7
15°	1347.2	1401.4	1460.0	1524.1	1585.4	1648.4	1704.8	1762.8	1817.0	1868.5	1929.9
17.5°	1327.2	1389.8	1458.9	1534.6	1608.3	1684.9	1751.8	1825.0	1880.4	1949.5	2006.4
20°	1311.1	1378.4	1452.3	1537.2	1621.0	1705.9	1779.8	1854.3	1916.8	1986.3	2058.6
22.5°	1291.3	1365.2	1445.3	1533.3	1621.0	1713.8	1795.6	1869.6	1946.9	2025.3	2099.8
25°	1259.6	1336.3	1421.1	1517.5	1618.3	1713.0	1800.6	1892.6	1975.9	2060.8	2127.6
27.5°	1220.6	1301.1	1390.6	1490.0	1593.4	1690.4	1793.7	1891.7	1975.5	2057.1	2115.4
30°	1189.5	1274.4	1360.3	1461.1	1568.4	1672.5	1783.1	1881.1	1969.3	2042.7	2075.5
32.5°	1157.5	1238.0	1326.6	1428.7	1538.7	1650.6	1760.3	1860.5	1942.1	1986.2	1987.0
35°	1101.8	1177.4	1269.4	1369.7	1482.5	1604.0	1715.2	1813.8	1863.6	1867.4	1813.8
37.5°	1041.2	1110.5	1197.4	1297.7	1421.3	1542.1	1655.7	1721.4	1738.1	1682.4	1583.1
40°	997.8	1061.8	1145.7	1248.6	1371.3	1496.1	1599.7	1647.8	1630.3	1539.9	1429.3
42.5°	952.2	1011.9	1092.7	1194.3	1317.4	1443.6	1531.8	1557.6	1511.2	1406.8	1277.3
45°	877.9	932.6	1012.6	1115.0	1233.3	1351.5	1418.4	1405.3	1328.0	1204.3	1059.1
47.5°	800.4	853.3	925.3	1020.0	1141.1	1243.3	1288.5	1248.9	1139.0	1002.8	884.8
50°	749.2	803.4	869.7	960.0	1070.6	1169.2	1198.3	1138.0	1015.9	884.9	776.6
52.5°	698.8	745.1	810.1	897.4	1003.1	1086.4	1101.8	1032.4	906.3	789.0	692.8
55°	622.1	664.3	719.1	801.2	892.6	963.3	955.1	865.9	751.4	651.2	575.6
57.5°	548.0	579.7	630.3	707.3	787.6	835.0	805.0	728.9	622.3	540.2	476.4
60°	498.9	528.5	575.6	642.9	713.6	740.4	715.2	632.6	548.2	473.2	419.5
62.5°	452.5	478.6	519.0	581.6	638.7	654.5	627.6	555.4	479.4	415.3	370.9
65°	385.0	409.1	443.6	488.0	527.4	535.0	517.5	443.6	386.1	332.4	301.7
67.5°	323.8	339.5	366.5	404.8	425.7	430.2	396.4	349.9	299.2	266.3	243.1
70°	282.6	293.5	318.7	339.5	356.5	357.0	325.8	288.6	249.7	222.9	205.9
72.5°	242.7	253.3	272.3	286.5	299.5	295.3	266.7	237.3	205.9	185.7	173.1
75°	187.3	196.6	206.4	213.0	213.0	207.6	186.7	164.9	146.8	134.8	130.9
77.5°	136.2	143.8	147.1	146.1	144.2	135.6	122.5	108.1	101.6	95.9	93.1
80°	106.8	110.1	111.1	108.4	105.1	95.3	86.5	80.5	74.5	72.3	71.2
82.5°	79.2	82.1	79.2	79.9	72.7	64.6	59.8	57.8	55.2	54.3	53.2
85°	42.1	41.6	40.6	37.8	32.9	31.8	31.2	30.7	29.5	30.1	29.0
87.5°	15.1	14.1	12.6	12.4	12.7	12.0	12.7	12.9	13.1	12.8	13.9
90°	3.2	4.7	6.1	7.5	8.8	9.8	10.9	11.9	12.9	13.7	14.5
92.5°	14.3	15.8	17.5	19.2	20.4	21.1	21.8	22.6	23.3	23.8	24.2
95°	36.4	37.6	38.8	40.0	41.0	41.9	42.9	43.8	44.7	45.1	45.5
97.5°	62.6	63.5	64.4	65.4	66.4	67.5	68.5	69.6	70.7	71.1	71.6
100°	82.9	83.3	83.9	84.4	85.2	86.4	87.6	88.8	90.0	90.2	90.5
102.5°	104.2	104.3	104.6	104.8	105.4	106.5	107.6	108.6	109.7	110.1	110.4
105°	137.1	137.3	137.4	137.5	137.8	138.4	138.9	139.4	139.9	140.3	140.7
107.5°	171.8	172.0	172.1	172.3	172.5	172.5	172.6	172.7	172.8	173.1	173.5
110°	195.4	195.7	196.0	196.2	196.3	196.1	196.1	195.9	195.7	195.5	195.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	219.7	219.8	219.8	219.8	219.8	219.5	219.3	219.0	218.8	218.8	218.7
115°	256.4	256.4	256.4	256.4	256.2	256.0	255.7	255.4	255.2	255.0	254.9
117.5°	291.0	291.1	291.2	291.4	291.3	291.1	291.0	290.7	290.6	290.1	289.7
120°	314.5	315.0	315.5	316.1	316.1	315.8	315.4	315.0	314.6	313.9	313.2
122.5°	338.2	338.3	338.6	338.8	338.8	338.7	338.4	338.3	338.1	337.6	337.2
125°	373.4	373.4	373.4	373.4	373.3	373.1	373.0	372.9	372.7	372.5	372.2
127.5°	405.8	406.2	406.6	407.0	407.1	406.9	406.7	406.5	406.3	406.0	405.8
130°	428.4	428.8	429.2	429.6	429.8	429.8	429.8	429.8	429.8	429.5	429.3
132.5°	451.4	451.6	451.9	452.3	452.3	452.2	452.1	452.0	451.9	451.6	451.4
135°	482.3	483.1	483.9	484.7	485.1	485.1	485.1	485.1	485.1	484.8	484.5
137.5°	515.1	515.4	515.8	516.2	516.4	516.7	516.8	517.1	517.3	516.9	516.6
140°	537.0	537.3	537.6	537.8	538.0	538.0	538.0	538.0	538.0	537.8	537.7
142.5°	557.3	557.5	557.8	558.1	558.2	558.0	557.9	557.9	557.7	557.7	557.7
145°	585.5	586.1	586.6	587.1	587.4	587.6	587.7	587.8	588.0	587.8	587.7
147.5°	613.4	614.0	614.7	615.3	615.5	615.4	615.3	615.2	615.1	615.0	614.9
150°	630.2	630.7	631.3	631.8	632.1	632.1	632.1	632.1	632.1	632.1	632.1
152.5°	646.0	646.3	646.7	647.0	647.1	647.2	647.4	647.5	647.5	647.8	648.2
155°	670.3	670.3	670.3	670.3	670.2	670.0	669.9	669.8	669.7	670.2	670.7
157.5°	690.7	690.5	690.2	690.0	689.9	689.8	689.8	689.8	689.8	690.1	690.5
160°	703.1	702.9	702.8	702.7	702.5	702.4	702.3	702.1	702.0	702.4	702.8
162.5°	714.2	713.8	713.4	713.1	712.9	712.7	712.6	712.5	712.3	713.0	713.8
165°	729.3	728.9	728.5	728.1	727.8	727.5	727.2	727.0	726.7	727.5	728.3
167.5°	740.8	740.2	739.7	739.1	738.8	738.9	738.9	738.9	738.9	739.7	740.5
170°	747.2	746.6	745.9	745.3	745.0	745.1	745.3	745.4	745.5	746.3	747.1
172.5°	752.0	751.5	750.9	750.4	750.1	750.1	750.2	750.2	750.2	751.1	752.0
175°	758.4	757.7	757.1	756.5	756.1	755.9	755.7	755.7	755.5	756.5	757.3
177.5°	760.7	760.1	759.6	759.1	758.8	758.8	758.8	758.8	758.8	759.5	760.3
180°	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2	760.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1425.8	1427.6	1428.9	1433.3	1433.7	1437.7	1433.7
5°	1543.8	1551.5	1563.5	1575.6	1576.7	1584.3	1570.7
7.5°	1676.1	1693.8	1704.9	1724.4	1732.1	1736.9	1729.0
10°	1767.2	1783.7	1812.7	1826.9	1841.2	1843.3	1836.8
12.5°	1855.3	1881.4	1904.2	1931.2	1930.5	1949.8	1942.8
15°	1972.6	1999.5	2031.2	2061.3	2072.3	2072.3	2081.1
17.5°	2056.3	2105.5	2138.3	2161.9	2187.8	2192.3	2189.3
20°	2112.8	2165.9	2201.0	2231.7	2249.2	2254.1	2254.1
22.5°	2154.8	2200.0	2234.3	2261.8	2276.3	2282.1	2280.4
25°	2184.0	2222.9	2243.7	2251.9	2255.7	2254.6	2244.3
27.5°	2144.1	2142.4	2129.2	2104.0	2085.1	2073.6	2060.5
30°	2067.9	2039.4	2006.5	1970.4	1923.9	1888.2	1877.3
32.5°	1954.4	1890.5	1834.8	1774.6	1724.5	1688.9	1674.0
35°	1735.0	1633.6	1550.9	1478.6	1426.1	1393.2	1382.3
37.5°	1474.5	1376.4	1274.1	1204.0	1160.3	1127.1	1114.8
40°	1308.8	1202.1	1112.8	1047.1	1002.2	969.9	969.3
42.5°	1157.7	1055.7	971.8	924.4	876.0	854.6	854.5
45°	947.9	866.3	795.2	758.0	728.9	711.4	706.5
47.5°	784.9	717.4	669.9	640.3	616.6	605.5	598.3
50°	693.3	634.1	596.4	570.6	557.5	543.3	542.2
52.5°	617.1	569.3	539.9	519.0	502.3	493.8	494.0
55°	518.6	480.9	460.0	444.1	431.0	424.5	421.7
57.5°	436.9	408.5	393.4	378.8	373.3	368.1	366.7
60°	386.1	366.9	352.7	341.2	333.0	331.3	330.7
62.5°	344.0	324.0	314.1	305.2	299.2	296.7	295.7
65°	283.7	268.9	260.2	253.0	250.8	247.0	246.4
67.5°	228.7	219.8	214.0	209.1	206.1	205.9	205.9
70°	195.0	190.0	185.1	182.4	180.7	179.6	179.6
72.5°	166.0	162.4	158.4	156.9	156.6	155.5	155.1
75°	126.5	122.7	123.2	120.5	118.3	115.6	113.9
77.5°	89.7	87.0	86.4	86.1	84.2	83.9	84.8
80°	69.6	66.8	66.2	66.8	66.2	64.6	64.6
82.5°	52.9	50.6	50.1	49.7	49.2	49.7	48.9
85°	28.4	27.4	27.4	27.4	28.4	28.0	27.4
87.5°	13.2	12.8	13.4	13.0	13.1	12.7	13.2
90°	15.3	16.1	16.6	16.9	17.1	17.3	17.7
92.5°	24.7	25.2	25.5	25.7	25.8	26.0	26.1
95°	45.9	46.3	46.4	46.4	46.4	46.4	46.4
97.5°	72.1	72.6	72.8	72.8	72.8	72.8	72.8
100°	90.7	91.0	91.1	91.1	91.1	91.1	91.1
102.5°	110.8	111.1	111.4	111.5	111.6	111.7	111.9
105°	141.1	141.5	141.9	142.3	142.7	143.1	143.5
107.5°	173.8	174.2	174.4	174.4	174.4	174.3	174.3
110°	195.0	194.7	194.8	195.2	195.6	196.0	196.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	218.6	218.6	218.6	218.7	218.8	218.9	219.0
115°	254.8	254.6	254.5	254.4	254.3	254.1	254.0
117.5°	289.2	288.8	288.4	288.2	287.9	287.6	287.4
120°	312.6	312.0	311.7	312.0	312.3	312.5	312.8
122.5°	336.8	336.3	335.8	335.3	334.9	334.5	334.0
125°	372.0	371.7	371.5	371.2	370.9	370.7	370.4
127.5°	405.5	405.2	405.0	404.8	404.6	404.3	404.2
130°	429.0	428.7	428.3	427.9	427.3	426.7	426.3
132.5°	451.1	450.8	450.6	450.4	450.2	450.0	449.8
135°	484.3	484.0	483.7	483.3	482.9	482.5	482.1
137.5°	516.3	515.9	515.8	515.9	515.9	516.0	516.1
140°	537.6	537.4	537.3	537.2	537.0	536.9	536.8
142.5°	557.6	557.6	557.6	557.5	557.5	557.5	557.5
145°	587.6	587.4	587.2	586.8	586.4	586.0	585.6
147.5°	614.8	614.7	614.6	614.4	614.3	614.2	614.0
150°	632.1	632.1	632.0	631.8	631.7	631.6	631.4
152.5°	648.5	648.8	648.8	648.5	648.2	647.8	647.5
155°	671.2	671.8	671.8	671.2	670.7	670.2	669.7
157.5°	690.9	691.3	691.3	690.9	690.5	690.0	689.5
160°	703.2	703.6	703.5	702.8	702.1	701.5	700.8
162.5°	714.5	715.2	715.2	714.5	713.9	713.3	712.6
165°	729.0	729.8	730.0	729.4	728.9	728.4	727.9
167.5°	741.2	742.0	742.0	741.2	740.5	739.7	738.8
170°	747.9	748.7	748.6	747.7	746.8	745.8	745.0
172.5°	752.9	753.8	753.8	752.8	751.9	751.0	750.1
175°	758.3	759.1	759.1	758.3	757.3	756.5	755.5
177.5°	761.0	761.8	761.7	760.8	760.0	759.1	758.4
180°	760.2	760.2	760.2	760.2	760.2	760.2	760.2

(END OF REPORT)