

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: P331531-840

Luminaire Tested: **S122DIW-S675D710U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331531-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S675D710U840-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 710 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5824.9 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

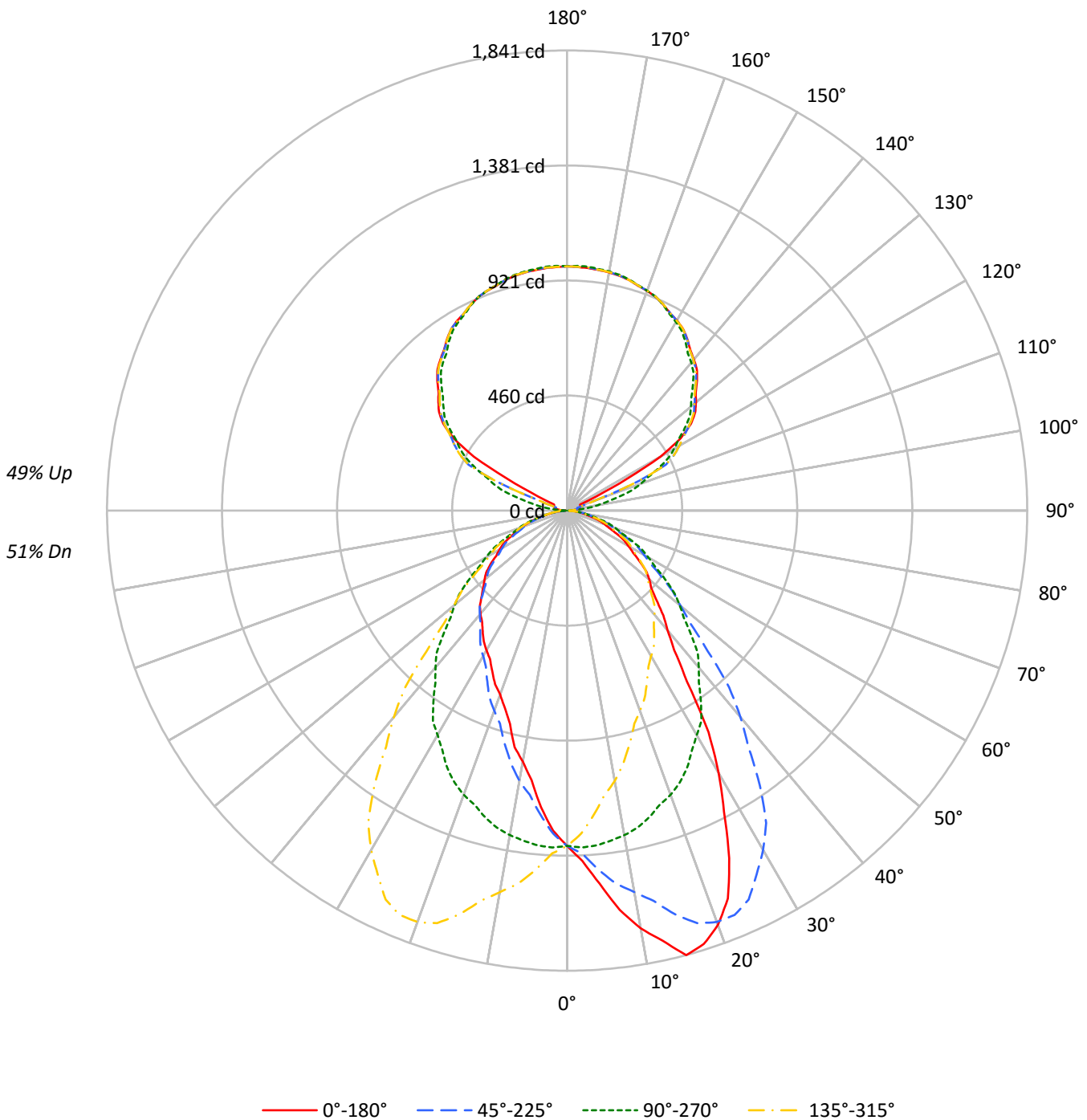
Input Watts (W): 45  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

### Luminous Intensity Polar Plot





TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	83	77	72	83	77	72	67	66	62	59	55	52	50	46	44	42	37
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	58	50	45	64	54	47	42	47	41	37	40	36	33	33	30	28	25
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22
7	60	48	40	34	55	45	38	33	39	33	29	33	29	26	28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	23	20	18
9	52	40	32	27	48	37	31	26	33	27	23	28	24	21	24	21	18	16
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	21658	21658	21658	21658
5°	24280	21797	19316	21797
10°	27824	21620	16718	21620
15°	30780	21224	14770	21224
20°	30311	20797	13464	20797
25°	27332	20232	12636	20232
30°	22585	19328	12033	19328
35°	16462	18382	11606	18382
40°	13148	17266	11367	17266
45°	11488	15972	11040	15972
50°	10798	14722	10826	14722
55°	9956	13453	10536	13453
60°	9122	12103	10091	12103
65°	8309	10892	9650	10892
70°	7544	9711	9007	9711
75°	6687	8390	7973	8390
80°	5755	6946	6425	6946
85°	5169	5169	3816	5169



TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.7	2.2
10°-20°	371.4	6.4
20°-30°	539.0	9.3
30°-40°	568.8	9.8
40°-50°	503.6	8.6
50°-60°	401.9	6.9
60°-70°	273.2	4.7
70°-80°	140.0	2.4
80°-90°	36.2	0.6
90°-100°	32.6	0.6
100°-110°	119.5	2.1
110°-120°	319.5	5.5
120°-130°	527.3	9.1
130°-140°	560.8	9.6
140°-150°	521.3	8.9
150°-160°	419.1	7.2
160°-170°	270.1	4.6
170°-180°	93.0	1.6
0°-30°	1038.1	17.8
0°-40°	1606.9	27.6
0°-60°	2512.4	43.1
0°-90°	2961.8	50.8
90°-120°	471.6	8.1
90°-150°	2081.0	35.7
90°-180°	2863.0	49.2
0°-180°	5824.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1341	1341	1341	1341	1341	
5°	1498	1345	1192	1345	1498	150
15°	1841	1270	884	1270	1841	508
25°	1534	1136	709	1136	1534	693
35°	835	933	589	933	835	543
45°	503	700	484	700	503	396
55°	354	478	374	478	354	317
65°	218	285	253	285	218	216
75°	107	134	128	134	107	115
85°	28	28	21	28	28	31
90°	19	1	19	1	19	10
95°	30	46	30	46	30	28
105°	54	215	54	215	54	56
115°	58	406	58	406	58	145
125°	604	575	604	575	604	523
135°	735	711	735	711	735	566
145°	838	825	838	825	838	524
155°	909	908	909	908	909	419
165°	955	957	955	957	955	270
175°	974	979	974	979	974	93
180°	977	977	977	977	977	



TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1403.2	1403.6	1404.5	1397.9	1397.0	1397.0	1391.3	1386.3	1380.6	1372.7	1373.5
5°	1498.1	1503.8	1505.8	1499.6	1490.4	1489.3	1480.6	1466.1	1452.7	1441.9	1434.2
7.5°	1611.3	1613.6	1608.5	1600.3	1593.5	1581.1	1564.8	1548.8	1526.4	1505.9	1490.7
10°	1697.1	1700.2	1691.4	1679.6	1669.8	1655.4	1631.6	1607.4	1578.0	1549.6	1526.9
12.5°	1762.2	1769.9	1758.7	1757.1	1740.3	1720.5	1692.2	1680.0	1638.6	1599.1	1574.8
15°	1841.4	1840.9	1842.0	1832.2	1819.8	1816.6	1786.8	1754.3	1696.1	1672.8	1632.6
17.5°	1818.6	1826.3	1830.0	1829.9	1829.6	1827.7	1818.1	1797.6	1768.4	1730.7	1684.3
20°	1764.1	1774.4	1775.9	1787.9	1794.5	1803.3	1806.9	1801.2	1783.2	1751.7	1711.5
22.5°	1680.0	1682.8	1687.7	1706.2	1720.7	1742.6	1754.1	1773.2	1766.3	1750.9	1717.3
25°	1534.2	1529.0	1547.1	1556.3	1589.8	1624.9	1650.2	1678.0	1702.7	1717.7	1707.9
27.5°	1359.1	1351.4	1378.4	1403.0	1430.3	1468.2	1507.6	1554.1	1592.8	1641.1	1657.7
30°	1211.4	1216.1	1241.9	1268.2	1309.4	1363.0	1407.3	1458.4	1513.6	1567.7	1605.3
32.5°	1052.3	1070.2	1086.4	1126.7	1163.0	1222.8	1287.8	1351.6	1420.4	1481.9	1540.1
35°	835.2	855.8	878.5	907.9	958.9	1018.1	1081.6	1167.6	1261.5	1345.5	1414.6
37.5°	703.0	699.6	712.7	733.9	775.3	823.0	896.1	981.2	1091.6	1190.3	1287.8
40°	623.8	621.7	631.0	650.6	682.1	717.1	781.0	855.8	958.4	1078.9	1195.0
42.5°	569.4	570.6	575.7	589.6	611.1	640.0	687.8	751.4	845.4	959.0	1083.6
45°	503.1	506.8	512.4	519.2	531.5	555.2	582.0	627.4	701.7	796.5	919.2
47.5°	455.6	455.7	461.4	467.3	474.6	488.0	509.9	538.3	590.7	667.9	773.4
50°	429.9	426.4	430.5	435.0	442.8	452.1	466.6	493.3	528.4	590.8	678.9
52.5°	398.6	398.7	402.4	404.1	411.1	420.3	433.5	452.1	483.8	532.6	605.1
55°	353.7	356.2	358.3	361.3	367.6	374.3	384.6	397.0	421.7	458.3	511.9
57.5°	311.3	312.1	314.3	320.1	324.1	330.2	340.0	351.2	367.4	394.5	434.7
60°	282.5	282.5	286.6	289.2	294.4	300.5	308.3	319.1	333.6	355.7	388.2
62.5°	256.1	255.7	257.3	261.6	265.5	271.2	279.0	288.2	301.7	321.4	348.2
65°	217.5	216.5	219.6	220.7	224.8	230.5	236.6	246.4	257.2	271.7	295.4
67.5°	180.5	181.7	183.3	185.3	187.5	193.5	197.6	204.6	213.7	225.7	241.8
70°	159.8	159.8	159.8	161.4	164.4	167.5	171.7	177.3	186.1	196.4	210.9
72.5°	136.7	138.4	140.0	139.1	143.0	144.8	149.8	153.0	161.4	167.9	180.8
75°	107.2	107.2	107.2	109.8	111.4	112.9	116.0	119.1	123.2	131.5	138.1
77.5°	80.0	79.8	80.3	80.9	82.6	84.4	85.3	88.2	92.0	95.7	101.5
80°	61.9	62.9	63.4	64.4	64.4	65.4	65.9	69.6	72.2	74.7	78.4
82.5°	47.9	48.1	48.2	48.4	48.8	49.4	50.7	51.9	52.8	54.9	57.8
85°	27.9	27.4	27.4	28.4	27.9	27.9	28.9	29.9	29.9	30.4	31.9
87.5°	14.5	14.4	14.8	14.3	14.2	14.5	14.4	13.8	14.1	14.3	14.5
90°	19.1	18.8	18.5	18.2	17.9	17.3	16.5	15.8	14.9	14.1	12.9
92.5°	19.1	18.9	18.7	18.5	18.4	18.1	17.7	17.3	16.8	16.4	15.8
95°	30.4	30.6	30.7	30.9	31.0	30.7	29.9	29.2	28.4	27.6	26.5
97.5°	40.6	40.4	40.2	40.0	39.8	39.4	38.8	38.2	37.6	36.9	34.3
100°	47.4	47.1	46.8	46.5	46.2	45.3	44.0	42.8	41.5	40.3	37.7
102.5°	50.8	50.3	49.9	49.5	49.0	48.0	46.4	44.7	43.0	41.4	63.7
105°	53.7	53.1	52.5	51.8	51.2	50.0	48.3	46.6	44.8	43.1	86.0
107.5°	55.2	54.6	54.0	53.4	52.8	53.3	55.1	56.9	58.6	60.4	111.8
110°	55.8	55.2	54.6	53.9	53.3	60.9	76.5	92.3	108.1	123.7	169.2



TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	56.5	55.9	55.4	54.9	54.4	82.8	140.2	197.4	254.8	312.0	323.3
115°	58.0	69.3	80.6	91.9	103.2	145.2	217.9	290.7	363.5	436.2	432.2
117.5°	236.7	273.9	311.0	348.2	385.4	412.7	430.3	448.0	465.5	483.1	480.4
120°	431.2	452.4	473.6	494.8	516.0	525.7	523.8	522.0	520.1	518.2	515.3
122.5°	538.2	542.3	546.3	550.5	554.6	556.1	554.9	553.8	552.7	551.6	548.5
125°	604.4	604.0	603.5	603.0	602.6	601.8	600.7	599.6	598.4	597.3	594.4
127.5°	646.3	646.2	646.1	646.0	645.9	645.1	643.5	641.9	640.3	638.6	636.4
130°	672.4	672.5	672.7	672.8	673.0	672.2	670.4	668.7	667.0	665.3	663.5
132.5°	697.8	697.9	698.1	698.2	698.4	697.7	696.3	694.8	693.3	691.9	690.1
135°	734.6	734.9	735.2	735.5	735.8	735.2	733.6	732.1	730.4	728.9	727.5
137.5°	768.0	768.6	769.1	769.6	770.2	769.7	768.1	766.6	765.1	763.6	761.9
140°	789.0	789.7	790.5	791.3	792.1	791.8	790.4	789.0	787.6	786.2	784.4
142.5°	809.3	810.1	810.9	811.7	812.4	812.2	810.9	809.6	808.4	807.1	805.1
145°	837.8	838.5	839.3	840.1	840.9	840.7	839.6	838.5	837.5	836.4	833.6
147.5°	862.7	863.4	864.1	864.7	865.5	865.4	864.5	863.7	862.9	862.0	859.4
150°	878.1	878.8	879.6	880.4	881.2	881.1	880.2	879.2	878.3	877.4	874.8
152.5°	891.0	892.1	893.1	894.1	895.2	895.2	894.3	893.3	892.4	891.5	889.1
155°	909.2	910.4	911.7	912.9	914.1	914.3	913.4	912.4	911.5	910.6	908.7
157.5°	925.6	927.0	928.2	929.4	930.6	930.7	929.6	928.6	927.5	926.3	925.0
160°	935.3	936.4	937.5	938.6	939.7	939.8	938.9	937.9	937.0	936.0	935.0
162.5°	943.2	944.5	945.9	947.3	948.7	948.8	947.7	946.6	945.5	944.5	943.7
165°	955.1	956.2	957.4	958.4	959.5	959.5	958.4	957.4	956.2	955.1	954.6
167.5°	962.6	964.0	965.4	966.8	968.3	968.4	967.3	966.2	965.1	964.0	963.6
170°	967.1	968.6	970.0	971.4	972.8	972.9	971.8	970.8	969.7	968.6	968.3
172.5°	970.5	971.9	973.3	974.7	976.1	976.3	975.2	974.1	973.0	971.9	971.6
175°	973.5	975.0	976.6	978.2	979.8	980.0	978.9	977.9	976.7	975.6	975.3
177.5°	975.3	976.4	977.5	978.8	979.9	980.0	979.1	978.3	977.3	976.4	976.3
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1376.4	1373.1	1371.1	1363.6	1357.1	1350.5	1348.4	1349.2	1340.2	1331.5	1327.8
5°	1430.1	1419.8	1410.0	1396.0	1379.6	1361.5	1352.2	1344.9	1327.0	1307.4	1296.1
7.5°	1478.1	1463.4	1444.5	1418.3	1394.3	1365.9	1347.9	1331.9	1305.5	1277.9	1260.9
10°	1507.4	1487.2	1463.0	1431.1	1401.7	1367.2	1342.9	1318.7	1287.8	1254.8	1234.2
12.5°	1532.6	1505.4	1481.6	1440.6	1405.8	1362.6	1333.8	1299.7	1267.2	1228.0	1207.8
15°	1592.5	1542.5	1497.0	1450.7	1407.9	1347.6	1315.7	1269.7	1226.9	1178.5	1155.3
17.5°	1638.7	1582.6	1511.1	1452.1	1402.2	1335.4	1288.5	1233.6	1183.0	1127.5	1096.0
20°	1665.2	1600.6	1523.9	1453.8	1393.9	1317.7	1266.7	1210.4	1151.1	1088.7	1054.7
22.5°	1680.8	1613.1	1537.1	1447.5	1377.5	1303.2	1239.0	1177.4	1117.3	1050.1	1014.3
25°	1685.8	1623.9	1543.5	1442.4	1356.9	1272.8	1195.5	1135.7	1063.0	1000.1	948.1
27.5°	1661.2	1616.9	1539.5	1432.7	1333.0	1234.8	1148.6	1080.9	1004.1	935.8	883.5
30°	1631.1	1605.3	1530.0	1422.8	1314.0	1208.4	1113.5	1036.7	960.4	891.3	837.7
32.5°	1584.5	1578.9	1512.8	1408.8	1293.8	1175.0	1076.8	999.2	914.6	846.8	795.7
35°	1493.0	1517.7	1475.9	1377.5	1255.8	1127.4	1021.3	932.6	845.0	780.0	732.1
37.5°	1370.3	1431.7	1420.8	1331.6	1204.5	1075.7	958.5	865.8	782.2	716.7	669.6
40°	1285.7	1364.0	1375.4	1296.6	1168.2	1035.7	911.4	819.2	737.7	677.9	630.5
42.5°	1195.0	1286.6	1317.7	1254.5	1128.5	993.6	869.4	773.8	693.2	635.0	593.0
45°	1042.9	1164.1	1220.2	1184.2	1062.5	924.3	796.5	699.5	626.3	571.7	539.3
47.5°	900.7	1033.1	1108.6	1095.9	989.0	852.1	725.8	632.8	561.5	517.9	488.8
50°	800.1	936.1	1027.4	1031.6	936.1	800.6	673.8	586.1	520.7	480.0	456.3
52.5°	712.7	842.5	942.1	963.9	877.2	747.0	627.2	540.0	482.3	444.8	423.6
55°	598.5	708.3	818.6	858.9	789.2	665.5	554.7	477.9	423.7	398.0	379.4
57.5°	497.6	589.2	691.1	735.5	692.6	586.6	482.7	416.1	372.1	349.5	335.3
60°	444.3	516.5	607.2	660.4	623.3	529.0	438.2	374.8	338.7	318.6	305.2
62.5°	394.9	458.8	535.5	584.1	563.9	474.9	393.6	337.7	306.5	287.6	278.0
65°	325.8	376.4	435.7	480.5	467.1	399.5	333.1	285.1	260.3	245.4	237.6
67.5°	268.3	304.8	345.9	385.2	374.4	326.5	273.2	235.8	217.3	204.5	199.9
70°	232.0	259.8	296.4	327.9	319.1	279.9	237.6	205.7	189.8	178.8	174.2
72.5°	197.3	220.3	248.1	273.9	267.9	235.4	200.2	176.0	163.7	153.7	149.9
75°	149.0	166.5	183.5	200.6	198.9	173.7	153.1	134.5	124.7	117.0	115.4
77.5°	110.0	119.8	131.4	141.5	138.7	124.2	108.1	97.5	90.2	85.0	84.2
80°	84.0	89.7	98.0	105.1	101.6	95.3	82.5	74.7	69.6	64.4	62.4
82.5°	60.9	66.7	71.6	75.4	72.7	67.0	59.0	53.7	50.6	47.2	46.3
85°	31.9	35.0	37.2	38.2	37.2	33.5	29.9	27.9	25.2	23.7	23.2
87.5°	14.7	14.4	14.2	14.7	13.1	12.8	10.8	9.2	9.2	9.1	8.6
90°	11.6	10.4	9.1	7.6	5.9	4.1	2.4	0.7	2.4	4.1	5.9
92.5°	15.1	14.5	13.9	13.6	13.8	13.9	14.1	14.2	14.1	13.9	13.8
95°	25.3	24.2	23.1	25.2	30.4	35.5	40.8	45.9	40.8	35.5	30.4
97.5°	31.8	29.3	26.8	32.7	47.4	62.0	76.5	91.2	76.5	62.0	47.4
100°	34.9	32.3	29.6	39.1	60.6	82.1	103.6	125.1	103.6	82.1	60.6
102.5°	86.1	108.5	130.8	144.2	148.8	153.3	157.9	162.5	157.9	153.3	148.8
105°	128.9	171.8	214.7	233.8	229.0	224.4	219.6	214.9	219.6	224.4	229.0
107.5°	163.3	214.7	266.1	289.9	286.1	282.4	278.5	274.7	278.5	282.4	286.1
110°	214.5	259.9	305.3	326.4	323.1	319.8	316.5	313.2	316.5	319.8	323.1





TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	334.5	345.7	356.9	361.0	358.1	355.3	352.3	349.4	352.3	355.3	358.1
115°	428.4	424.4	420.5	417.2	414.5	411.8	409.2	406.5	409.2	411.8	414.5
117.5°	477.8	475.0	472.3	469.5	466.5	463.5	460.5	457.6	460.5	463.5	466.5
120°	512.5	509.7	506.9	504.3	501.9	499.6	497.3	494.8	497.3	499.6	501.9
122.5°	545.4	542.3	539.3	536.4	534.0	531.5	529.1	526.5	529.1	531.5	534.0
125°	591.4	588.4	585.4	582.9	580.9	578.9	576.8	574.7	576.8	578.9	580.9
127.5°	634.2	632.0	629.8	627.5	625.2	623.0	620.7	618.4	620.7	623.0	625.2
130°	661.8	660.0	658.3	656.2	653.7	651.2	648.6	646.1	648.6	651.2	653.7
132.5°	688.3	686.6	684.9	683.0	680.9	678.7	676.6	674.5	676.6	678.7	680.9
135°	726.1	724.7	723.3	721.2	718.7	716.2	713.7	711.2	713.7	716.2	718.7
137.5°	760.3	758.7	757.1	755.4	753.7	751.9	750.1	748.4	750.1	751.9	753.7
140°	782.6	780.9	779.2	777.7	776.5	775.2	774.0	772.7	774.0	775.2	776.5
142.5°	803.1	801.1	799.1	797.6	796.5	795.4	794.2	793.0	794.2	795.4	796.5
145°	831.0	828.3	825.7	824.4	824.6	824.8	824.9	825.1	824.9	824.8	824.6
147.5°	856.8	854.1	851.5	850.5	851.1	851.7	852.3	852.8	852.3	851.7	851.1
150°	872.3	869.8	867.3	866.6	867.7	868.8	869.9	871.0	869.9	868.8	867.7
152.5°	886.7	884.3	881.9	881.3	882.5	883.8	885.0	886.3	885.0	883.8	882.5
155°	906.8	904.9	903.0	902.8	904.2	905.6	907.1	908.5	907.1	905.6	904.2
157.5°	923.7	922.4	921.1	921.1	922.2	923.4	924.6	925.8	924.6	923.4	922.2
160°	934.1	933.2	932.2	932.2	933.2	934.1	935.0	936.0	935.0	934.1	933.2
162.5°	942.9	942.0	941.2	941.3	942.2	943.2	944.1	945.0	944.1	943.2	942.2
165°	954.1	953.7	953.2	953.4	954.4	955.3	956.2	957.3	956.2	955.3	954.4
167.5°	963.1	962.7	962.3	962.5	963.4	964.4	965.3	966.2	965.3	964.4	963.4
170°	968.0	967.6	967.2	967.6	968.6	969.5	970.4	971.4	970.4	969.5	968.6
172.5°	971.3	971.0	970.7	971.0	971.9	972.9	973.8	974.7	973.8	972.9	971.9
175°	975.0	974.6	974.3	974.7	975.8	976.9	978.1	979.2	978.1	976.9	975.8
177.5°	976.2	976.0	975.9	976.3	977.2	978.1	979.0	979.9	979.0	978.1	977.2
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1323.6	1321.2	1312.5	1308.0	1300.5	1293.5	1289.0	1291.1	1292.7	1291.9	1290.6
5°	1285.7	1275.9	1260.9	1248.1	1238.8	1221.7	1214.6	1210.9	1207.9	1204.3	1200.6
7.5°	1240.5	1225.1	1203.7	1185.3	1167.9	1146.8	1134.8	1127.5	1120.1	1112.0	1104.8
10°	1208.4	1186.7	1164.1	1138.2	1117.6	1098.5	1081.6	1070.3	1060.0	1050.2	1042.9
12.5°	1174.6	1149.6	1121.6	1086.3	1063.6	1036.3	1033.7	1013.7	997.6	991.6	983.1
15°	1120.7	1085.7	1050.2	1008.4	990.3	965.5	950.1	934.6	920.7	910.9	908.4
17.5°	1059.6	1014.2	978.9	948.9	919.3	893.9	879.7	867.3	855.9	842.7	841.0
20°	1013.0	973.8	935.1	908.9	878.5	852.6	835.2	822.7	812.9	805.3	798.5
22.5°	968.9	925.9	890.6	861.8	831.8	811.0	797.2	785.3	777.1	768.5	762.2
25°	898.1	864.5	825.9	793.3	768.6	755.3	743.9	733.6	728.4	722.8	715.6
27.5°	836.1	798.8	762.7	737.5	715.8	703.9	695.8	688.8	684.0	680.6	676.6
30°	792.3	754.7	726.4	701.7	683.6	671.8	666.6	662.5	656.8	654.7	652.7
32.5°	750.3	716.4	692.2	670.7	653.5	645.7	641.0	637.3	632.9	630.8	626.6
35°	690.7	662.5	638.7	626.8	613.0	606.2	602.7	597.4	593.4	591.3	590.8
37.5°	634.8	610.2	594.6	579.4	573.5	569.4	564.4	560.9	559.7	559.4	558.9
40°	598.5	578.5	564.5	552.1	549.6	543.3	539.3	536.1	536.1	536.6	536.1
42.5°	565.5	547.4	535.2	524.5	521.5	517.8	513.6	513.4	514.3	516.0	514.3
45°	515.5	502.6	493.8	488.7	483.0	479.4	478.9	480.5	481.0	481.5	483.0
47.5°	469.5	461.0	453.0	447.4	444.8	444.2	443.6	446.4	448.8	449.7	452.1
50°	442.3	432.5	425.9	422.2	420.1	419.1	420.1	423.2	425.3	427.9	429.4
52.5°	411.8	404.9	400.2	397.5	396.7	397.3	397.5	401.0	404.2	405.2	406.0
55°	369.6	364.5	363.5	358.8	360.8	360.3	362.9	365.0	368.1	371.1	371.7
57.5°	327.6	323.5	320.6	321.0	321.6	324.0	326.1	329.7	333.1	336.3	336.6
60°	299.5	297.4	295.9	295.9	296.9	300.0	302.7	306.2	308.3	310.3	311.8
62.5°	274.0	271.9	270.3	271.1	273.9	275.7	278.7	280.6	282.7	284.8	285.5
65°	233.5	232.5	234.1	235.1	235.6	238.1	241.8	243.3	245.4	246.4	250.0
67.5°	196.3	196.5	196.3	197.7	200.8	201.4	204.8	208.3	208.7	210.8	213.1
70°	171.2	172.2	173.2	174.2	176.8	177.8	180.5	182.0	184.0	185.6	187.1
72.5°	148.0	148.2	149.3	149.1	151.3	153.5	155.7	157.2	159.3	161.3	162.8
75°	113.9	113.9	114.9	115.4	118.1	120.7	120.1	121.2	123.2	125.2	126.3
77.5°	83.2	82.1	83.2	83.7	84.5	86.7	87.2	88.6	90.9	90.2	91.4
80°	63.4	61.9	63.4	63.9	63.9	66.6	66.6	67.6	69.1	67.6	69.1
82.5°	45.2	44.5	45.6	45.7	46.6	46.7	47.6	47.8	49.3	48.6	49.3
85°	22.7	22.2	22.7	22.2	22.7	23.2	23.2	22.7	22.7	23.7	22.2
87.5°	8.6	8.4	8.3	8.5	8.4	8.2	8.0	8.1	8.3	7.6	7.7
90°	7.6	9.1	10.4	11.6	12.9	14.1	14.9	15.8	16.5	17.3	17.9
92.5°	13.6	13.9	14.5	15.1	15.8	16.4	16.8	17.3	17.7	18.1	18.4
95°	25.2	23.1	24.2	25.3	26.5	27.6	28.4	29.2	29.9	30.7	31.0
97.5°	32.7	26.8	29.3	31.8	34.3	36.9	37.6	38.2	38.8	39.4	39.8
100°	39.1	29.6	32.3	34.9	37.7	40.3	41.5	42.8	44.0	45.3	46.2
102.5°	144.2	130.8	108.5	86.1	63.7	41.4	43.0	44.7	46.4	48.0	49.0
105°	233.8	214.7	171.8	128.9	86.0	43.1	44.8	46.6	48.3	50.0	51.2
107.5°	289.9	266.1	214.7	163.3	111.8	60.4	58.6	56.9	55.1	53.3	52.8
110°	326.4	305.3	259.9	214.5	169.2	123.7	108.1	92.3	76.5	60.9	53.3



TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	361.0	356.9	345.7	334.5	323.3	312.0	254.8	197.4	140.2	82.8	54.4
115°	417.2	420.5	424.4	428.4	432.2	436.2	363.5	290.7	217.9	145.2	103.2
117.5°	469.5	472.3	475.0	477.8	480.4	483.1	465.5	448.0	430.3	412.7	385.4
120°	504.3	506.9	509.7	512.5	515.3	518.2	520.1	522.0	523.8	525.7	516.0
122.5°	536.4	539.3	542.3	545.4	548.5	551.6	552.7	553.8	554.9	556.1	554.6
125°	582.9	585.4	588.4	591.4	594.4	597.3	598.4	599.6	600.7	601.8	602.6
127.5°	627.5	629.8	632.0	634.2	636.4	638.6	640.3	641.9	643.5	645.1	645.9
130°	656.2	658.3	660.0	661.8	663.5	665.3	667.0	668.7	670.4	672.2	673.0
132.5°	683.0	684.9	686.6	688.3	690.1	691.9	693.3	694.8	696.3	697.7	698.4
135°	721.2	723.3	724.7	726.1	727.5	728.9	730.4	732.1	733.6	735.2	735.8
137.5°	755.4	757.1	758.7	760.3	761.9	763.6	765.1	766.6	768.1	769.7	770.2
140°	777.7	779.2	780.9	782.6	784.4	786.2	787.6	789.0	790.4	791.8	792.1
142.5°	797.6	799.1	801.1	803.1	805.1	807.1	808.4	809.6	810.9	812.2	812.4
145°	824.4	825.7	828.3	831.0	833.6	836.4	837.5	838.5	839.6	840.7	840.9
147.5°	850.5	851.5	854.1	856.8	859.4	862.0	862.9	863.7	864.5	865.4	865.5
150°	866.6	867.3	869.8	872.3	874.8	877.4	878.3	879.2	880.2	881.1	881.2
152.5°	881.3	881.9	884.3	886.7	889.1	891.5	892.4	893.3	894.3	895.2	895.2
155°	902.8	903.0	904.9	906.8	908.7	910.6	911.5	912.4	913.4	914.3	914.1
157.5°	921.1	921.1	922.4	923.7	925.0	926.3	927.5	928.6	929.6	930.7	930.6
160°	932.2	932.2	933.2	934.1	935.0	936.0	937.0	937.9	938.9	939.8	939.7
162.5°	941.3	941.2	942.0	942.9	943.7	944.5	945.5	946.6	947.7	948.8	948.7
165°	953.4	953.2	953.7	954.1	954.6	955.1	956.2	957.4	958.4	959.5	959.5
167.5°	962.5	962.3	962.7	963.1	963.6	964.0	965.1	966.2	967.3	968.4	968.3
170°	967.6	967.2	967.6	968.0	968.3	968.6	969.7	970.8	971.8	972.9	972.8
172.5°	971.0	970.7	971.0	971.3	971.6	971.9	973.0	974.1	975.2	976.3	976.1
175°	974.7	974.3	974.6	975.0	975.3	975.6	976.7	977.9	978.9	980.0	979.8
177.5°	976.3	975.9	976.0	976.2	976.3	976.4	977.3	978.3	979.1	980.0	979.9
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1286.6	1285.7	1285.7	1282.0	1285.7	1285.7	1286.6	1290.6	1291.9	1292.7	1291.1
5°	1193.5	1191.8	1189.3	1191.8	1189.3	1191.8	1193.5	1200.6	1204.3	1207.9	1210.9
7.5°	1101.4	1095.2	1094.3	1088.1	1094.3	1095.2	1101.4	1104.8	1112.0	1120.1	1127.5
10°	1034.1	1030.0	1029.5	1019.7	1029.5	1030.0	1034.1	1042.9	1050.2	1060.0	1070.3
12.5°	983.0	973.1	975.0	969.4	975.0	973.1	983.0	983.1	991.6	997.6	1013.7
15°	894.4	894.4	892.3	883.6	892.3	894.4	894.4	908.4	910.9	920.7	934.6
17.5°	830.8	829.8	824.9	827.3	824.9	829.8	830.8	841.0	842.7	855.9	867.3
20°	792.8	789.8	783.6	783.6	783.6	789.8	792.8	798.5	805.3	812.9	822.7
22.5°	757.0	756.8	750.2	752.2	750.2	756.8	757.0	762.2	768.5	777.1	785.3
25°	715.0	710.9	707.8	709.3	707.8	710.9	715.0	715.6	722.8	728.4	733.6
27.5°	675.2	673.0	672.8	668.5	672.8	673.0	675.2	676.6	680.6	684.0	688.8
30°	652.2	647.0	648.0	645.4	648.0	647.0	652.2	652.7	654.7	656.8	662.5
32.5°	625.7	623.9	622.9	620.7	622.9	623.9	625.7	626.6	630.8	632.9	637.3
35°	589.8	590.3	587.7	588.8	587.7	590.3	589.8	590.8	591.3	593.4	597.4
37.5°	558.4	560.0	558.8	559.1	558.8	560.0	558.4	558.9	559.4	559.7	560.9
40°	537.7	537.7	537.7	539.3	537.7	537.7	537.7	536.1	536.6	536.1	536.1
42.5°	517.9	517.1	516.2	516.1	516.2	517.1	517.9	514.3	516.0	514.3	513.4
45°	484.0	485.6	486.1	483.5	486.1	485.6	484.0	483.0	481.5	481.0	480.5
47.5°	453.4	453.6	453.4	455.8	453.4	453.6	453.4	452.1	449.7	448.8	446.4
50°	432.0	431.0	432.0	431.0	432.0	431.0	432.0	429.4	427.9	425.3	423.2
52.5°	409.3	409.5	408.9	408.7	408.9	409.5	409.3	406.0	405.2	404.2	401.0
55°	373.8	374.8	374.3	374.3	374.3	374.8	373.8	371.7	371.1	368.1	365.0
57.5°	337.0	337.9	338.6	336.3	338.6	337.9	337.0	336.6	336.3	333.1	329.7
60°	311.3	314.0	313.5	312.5	313.5	314.0	311.3	311.8	310.3	308.3	306.2
62.5°	287.9	288.8	288.7	288.5	288.7	288.8	287.9	285.5	284.8	282.7	280.6
65°	251.6	252.6	251.1	252.6	251.1	252.6	251.6	250.0	246.4	245.4	243.3
67.5°	212.5	212.8	214.0	214.7	214.0	212.8	212.5	213.1	210.8	208.7	208.3
70°	188.1	187.6	189.1	190.8	189.1	187.6	188.1	187.1	185.6	184.0	182.0
72.5°	162.6	163.7	163.2	164.3	163.2	163.7	162.6	162.8	161.3	159.3	157.2
75°	125.2	126.8	126.3	127.8	126.3	126.8	125.2	126.3	125.2	123.2	121.2
77.5°	90.5	90.7	90.5	91.4	90.5	90.7	90.5	91.4	90.2	90.9	88.6
80°	69.1	68.1	67.1	69.1	67.1	68.1	69.1	69.1	67.6	69.1	67.6
82.5°	48.1	48.7	47.7	47.7	47.7	48.7	48.1	49.3	48.6	49.3	47.8
85°	22.2	21.6	20.6	20.6	20.6	21.6	22.2	22.2	23.7	22.7	22.7
87.5°	7.8	7.4	7.5	7.1	7.5	7.4	7.8	7.7	7.6	8.3	8.1
90°	18.2	18.5	18.8	19.1	18.8	18.5	18.2	17.9	17.3	16.5	15.8
92.5°	18.5	18.7	18.9	19.1	18.9	18.7	18.5	18.4	18.1	17.7	17.3
95°	30.9	30.7	30.6	30.4	30.6	30.7	30.9	31.0	30.7	29.9	29.2
97.5°	40.0	40.2	40.4	40.6	40.4	40.2	40.0	39.8	39.4	38.8	38.2
100°	46.5	46.8	47.1	47.4	47.1	46.8	46.5	46.2	45.3	44.0	42.8
102.5°	49.5	49.9	50.3	50.8	50.3	49.9	49.5	49.0	48.0	46.4	44.7
105°	51.8	52.5	53.1	53.7	53.1	52.5	51.8	51.2	50.0	48.3	46.6
107.5°	53.4	54.0	54.6	55.2	54.6	54.0	53.4	52.8	53.3	55.1	56.9
110°	53.9	54.6	55.2	55.8	55.2	54.6	53.9	53.3	60.9	76.5	92.3



TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	54.9	55.4	55.9	56.5	55.9	55.4	54.9	54.4	82.8	140.2	197.4
115°	91.9	80.6	69.3	58.0	69.3	80.6	91.9	103.2	145.2	217.9	290.7
117.5°	348.2	311.0	273.9	236.7	273.9	311.0	348.2	385.4	412.7	430.3	448.0
120°	494.8	473.6	452.4	431.2	452.4	473.6	494.8	516.0	525.7	523.8	522.0
122.5°	550.5	546.3	542.3	538.2	542.3	546.3	550.5	554.6	556.1	554.9	553.8
125°	603.0	603.5	604.0	604.4	604.0	603.5	603.0	602.6	601.8	600.7	599.6
127.5°	646.0	646.1	646.2	646.3	646.2	646.1	646.0	645.9	645.1	643.5	641.9
130°	672.8	672.7	672.5	672.4	672.5	672.7	672.8	673.0	672.2	670.4	668.7
132.5°	698.2	698.1	697.9	697.8	697.9	698.1	698.2	698.4	697.7	696.3	694.8
135°	735.5	735.2	734.9	734.6	734.9	735.2	735.5	735.8	735.2	733.6	732.1
137.5°	769.6	769.1	768.6	768.0	768.6	769.1	769.6	770.2	769.7	768.1	766.6
140°	791.3	790.5	789.7	789.0	789.7	790.5	791.3	792.1	791.8	790.4	789.0
142.5°	811.7	810.9	810.1	809.3	810.1	810.9	811.7	812.4	812.2	810.9	809.6
145°	840.1	839.3	838.5	837.8	838.5	839.3	840.1	840.9	840.7	839.6	838.5
147.5°	864.7	864.1	863.4	862.7	863.4	864.1	864.7	865.5	865.4	864.5	863.7
150°	880.4	879.6	878.8	878.1	878.8	879.6	880.4	881.2	881.1	880.2	879.2
152.5°	894.1	893.1	892.1	891.0	892.1	893.1	894.1	895.2	895.2	894.3	893.3
155°	912.9	911.7	910.4	909.2	910.4	911.7	912.9	914.1	914.3	913.4	912.4
157.5°	929.4	928.2	927.0	925.6	927.0	928.2	929.4	930.6	930.7	929.6	928.6
160°	938.6	937.5	936.4	935.3	936.4	937.5	938.6	939.7	939.8	938.9	937.9
162.5°	947.3	945.9	944.5	943.2	944.5	945.9	947.3	948.7	948.8	947.7	946.6
165°	958.4	957.4	956.2	955.1	956.2	957.4	958.4	959.5	959.5	958.4	957.4
167.5°	966.8	965.4	964.0	962.6	964.0	965.4	966.8	968.3	968.4	967.3	966.2
170°	971.4	970.0	968.6	967.1	968.6	970.0	971.4	972.8	972.9	971.8	970.8
172.5°	974.7	973.3	971.9	970.5	971.9	973.3	974.7	976.1	976.3	975.2	974.1
175°	978.2	976.6	975.0	973.5	975.0	976.6	978.2	979.8	980.0	978.9	977.9
177.5°	978.8	977.5	976.4	975.3	976.4	977.5	978.8	979.9	980.0	979.1	978.3
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1289.0	1293.5	1300.5	1308.0	1312.5	1321.2	1323.6	1327.8	1331.5	1340.2	1349.2
5°	1214.6	1221.7	1238.8	1248.1	1260.9	1275.9	1285.7	1296.1	1307.4	1327.0	1344.9
7.5°	1134.8	1146.8	1167.9	1185.3	1203.7	1225.1	1240.5	1260.9	1277.9	1305.5	1331.9
10°	1081.6	1098.5	1117.6	1138.2	1164.1	1186.7	1208.4	1234.2	1254.8	1287.8	1318.7
12.5°	1033.7	1036.3	1063.6	1086.3	1121.6	1149.6	1174.6	1207.8	1228.0	1267.2	1299.7
15°	950.1	965.5	990.3	1008.4	1050.2	1085.7	1120.7	1155.3	1178.5	1226.9	1269.7
17.5°	879.7	893.9	919.3	948.9	978.9	1014.2	1059.6	1096.0	1127.5	1183.0	1233.6
20°	835.2	852.6	878.5	908.9	935.1	973.8	1013.0	1054.7	1088.7	1151.1	1210.4
22.5°	797.2	811.0	831.8	861.8	890.6	925.9	968.9	1014.3	1050.1	1117.3	1177.4
25°	743.9	755.3	768.6	793.3	825.9	864.5	898.1	948.1	1000.1	1063.0	1135.7
27.5°	695.8	703.9	715.8	737.5	762.7	798.8	836.1	883.5	935.8	1004.1	1080.9
30°	666.6	671.8	683.6	701.7	726.4	754.7	792.3	837.7	891.3	960.4	1036.7
32.5°	641.0	645.7	653.5	670.7	692.2	716.4	750.3	795.7	846.8	914.6	999.2
35°	602.7	606.2	613.0	626.8	638.7	662.5	690.7	732.1	780.0	845.0	932.6
37.5°	564.4	569.4	573.5	579.4	594.6	610.2	634.8	669.6	716.7	782.2	865.8
40°	539.3	543.3	549.6	552.1	564.5	578.5	598.5	630.5	677.9	737.7	819.2
42.5°	513.6	517.8	521.5	524.5	535.2	547.4	565.5	593.0	635.0	693.2	773.8
45°	478.9	479.4	483.0	488.7	493.8	502.6	515.5	539.3	571.7	626.3	699.5
47.5°	443.6	444.2	444.8	447.4	453.0	461.0	469.5	488.8	517.9	561.5	632.8
50°	420.1	419.1	420.1	422.2	425.9	432.5	442.3	456.3	480.0	520.7	586.1
52.5°	397.5	397.3	396.7	397.5	400.2	404.9	411.8	423.6	444.8	482.3	540.0
55°	362.9	360.3	360.8	358.8	363.5	364.5	369.6	379.4	398.0	423.7	477.9
57.5°	326.1	324.0	321.6	321.0	320.6	323.5	327.6	335.3	349.5	372.1	416.1
60°	302.7	300.0	296.9	295.9	295.9	297.4	299.5	305.2	318.6	338.7	374.8
62.5°	278.7	275.7	273.9	271.1	270.3	271.9	274.0	278.0	287.6	306.5	337.7
65°	241.8	238.1	235.6	235.1	234.1	232.5	233.5	237.6	245.4	260.3	285.1
67.5°	204.8	201.4	200.8	197.7	196.3	196.5	196.3	199.9	204.5	217.3	235.8
70°	180.5	177.8	176.8	174.2	173.2	172.2	171.2	174.2	178.8	189.8	205.7
72.5°	155.7	153.5	151.3	149.1	149.3	148.2	148.0	149.9	153.7	163.7	176.0
75°	120.1	120.7	118.1	115.4	114.9	113.9	113.9	115.4	117.0	124.7	134.5
77.5°	87.2	86.7	84.5	83.7	83.2	82.1	83.2	84.2	85.0	90.2	97.5
80°	66.6	66.6	63.9	63.9	63.4	61.9	63.4	62.4	64.4	69.6	74.7
82.5°	47.6	46.7	46.6	45.7	45.6	44.5	45.2	46.3	47.2	50.6	53.7
85°	23.2	23.2	22.7	22.2	22.7	22.2	22.7	23.2	23.7	25.2	27.9
87.5°	8.0	8.2	8.4	8.5	8.3	8.4	8.6	8.6	9.1	9.2	9.2
90°	14.9	14.1	12.9	11.6	10.4	9.1	7.6	5.9	4.1	2.4	0.7
92.5°	16.8	16.4	15.8	15.1	14.5	13.9	13.6	13.8	13.9	14.1	14.2
95°	28.4	27.6	26.5	25.3	24.2	23.1	25.2	30.4	35.5	40.8	45.9
97.5°	37.6	36.9	34.3	31.8	29.3	26.8	32.7	47.4	62.0	76.5	91.2
100°	41.5	40.3	37.7	34.9	32.3	29.6	39.1	60.6	82.1	103.6	125.1
102.5°	43.0	41.4	63.7	86.1	108.5	130.8	144.2	148.8	153.3	157.9	162.5
105°	44.8	43.1	86.0	128.9	171.8	214.7	233.8	229.0	224.4	219.6	214.9
107.5°	58.6	60.4	111.8	163.3	214.7	266.1	289.9	286.1	282.4	278.5	274.7
110°	108.1	123.7	169.2	214.5	259.9	305.3	326.4	323.1	319.8	316.5	313.2



TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	254.8	312.0	323.3	334.5	345.7	356.9	361.0	358.1	355.3	352.3	349.4
115°	363.5	436.2	432.2	428.4	424.4	420.5	417.2	414.5	411.8	409.2	406.5
117.5°	465.5	483.1	480.4	477.8	475.0	472.3	469.5	466.5	463.5	460.5	457.6
120°	520.1	518.2	515.3	512.5	509.7	506.9	504.3	501.9	499.6	497.3	494.8
122.5°	552.7	551.6	548.5	545.4	542.3	539.3	536.4	534.0	531.5	529.1	526.5
125°	598.4	597.3	594.4	591.4	588.4	585.4	582.9	580.9	578.9	576.8	574.7
127.5°	640.3	638.6	636.4	634.2	632.0	629.8	627.5	625.2	623.0	620.7	618.4
130°	667.0	665.3	663.5	661.8	660.0	658.3	656.2	653.7	651.2	648.6	646.1
132.5°	693.3	691.9	690.1	688.3	686.6	684.9	683.0	680.9	678.7	676.6	674.5
135°	730.4	728.9	727.5	726.1	724.7	723.3	721.2	718.7	716.2	713.7	711.2
137.5°	765.1	763.6	761.9	760.3	758.7	757.1	755.4	753.7	751.9	750.1	748.4
140°	787.6	786.2	784.4	782.6	780.9	779.2	777.7	776.5	775.2	774.0	772.7
142.5°	808.4	807.1	805.1	803.1	801.1	799.1	797.6	796.5	795.4	794.2	793.0
145°	837.5	836.4	833.6	831.0	828.3	825.7	824.4	824.6	824.8	824.9	825.1
147.5°	862.9	862.0	859.4	856.8	854.1	851.5	850.5	851.1	851.7	852.3	852.8
150°	878.3	877.4	874.8	872.3	869.8	867.3	866.6	867.7	868.8	869.9	871.0
152.5°	892.4	891.5	889.1	886.7	884.3	881.9	881.3	882.5	883.8	885.0	886.3
155°	911.5	910.6	908.7	906.8	904.9	903.0	902.8	904.2	905.6	907.1	908.5
157.5°	927.5	926.3	925.0	923.7	922.4	921.1	921.1	922.2	923.4	924.6	925.8
160°	937.0	936.0	935.0	934.1	933.2	932.2	932.2	933.2	934.1	935.0	936.0
162.5°	945.5	944.5	943.7	942.9	942.0	941.2	941.3	942.2	943.2	944.1	945.0
165°	956.2	955.1	954.6	954.1	953.7	953.2	953.4	954.4	955.3	956.2	957.3
167.5°	965.1	964.0	963.6	963.1	962.7	962.3	962.5	963.4	964.4	965.3	966.2
170°	969.7	968.6	968.3	968.0	967.6	967.2	967.6	968.6	969.5	970.4	971.4
172.5°	973.0	971.9	971.6	971.3	971.0	970.7	971.0	971.9	972.9	973.8	974.7
175°	976.7	975.6	975.3	975.0	974.6	974.3	974.7	975.8	976.9	978.1	979.2
177.5°	977.3	976.4	976.3	976.2	976.0	975.9	976.3	977.2	978.1	979.0	979.9
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1348.4	1350.5	1357.1	1363.6	1371.1	1373.1	1376.4	1373.5	1372.7	1380.6	1386.3
5°	1352.2	1361.5	1379.6	1396.0	1410.0	1419.8	1430.1	1434.2	1441.9	1452.7	1466.1
7.5°	1347.9	1365.9	1394.3	1418.3	1444.5	1463.4	1478.1	1490.7	1505.9	1526.4	1548.8
10°	1342.9	1367.2	1401.7	1431.1	1463.0	1487.2	1507.4	1526.9	1549.6	1578.0	1607.4
12.5°	1333.8	1362.6	1405.8	1440.6	1481.6	1505.4	1532.6	1574.8	1599.1	1638.6	1680.0
15°	1315.7	1347.6	1407.9	1450.7	1497.0	1542.5	1592.5	1632.6	1672.8	1696.1	1754.3
17.5°	1288.5	1335.4	1402.2	1452.1	1511.1	1582.6	1638.7	1684.3	1730.7	1768.4	1797.6
20°	1266.7	1317.7	1393.9	1453.8	1523.9	1600.6	1665.2	1711.5	1751.7	1783.2	1801.2
22.5°	1239.0	1303.2	1377.5	1447.5	1537.1	1613.1	1680.8	1717.3	1750.9	1766.3	1773.2
25°	1195.5	1272.8	1356.9	1442.4	1543.5	1623.9	1685.8	1707.9	1717.7	1702.7	1678.0
27.5°	1148.6	1234.8	1333.0	1432.7	1539.5	1616.9	1661.2	1657.7	1641.1	1592.8	1554.1
30°	1113.5	1208.4	1314.0	1422.8	1530.0	1605.3	1631.1	1605.3	1567.7	1513.6	1458.4
32.5°	1076.8	1175.0	1293.8	1408.8	1512.8	1578.9	1584.5	1540.1	1481.9	1420.4	1351.6
35°	1021.3	1127.4	1255.8	1377.5	1475.9	1517.7	1493.0	1414.6	1345.5	1261.5	1167.6
37.5°	958.5	1075.7	1204.5	1331.6	1420.8	1431.7	1370.3	1287.8	1190.3	1091.6	981.2
40°	911.4	1035.7	1168.2	1296.6	1375.4	1364.0	1285.7	1195.0	1078.9	958.4	855.8
42.5°	869.4	993.6	1128.5	1254.5	1317.7	1286.6	1195.0	1083.6	959.0	845.4	751.4
45°	796.5	924.3	1062.5	1184.2	1220.2	1164.1	1042.9	919.2	796.5	701.7	627.4
47.5°	725.8	852.1	989.0	1095.9	1108.6	1033.1	900.7	773.4	667.9	590.7	538.3
50°	673.8	800.6	936.1	1031.6	1027.4	936.1	800.1	678.9	590.8	528.4	493.3
52.5°	627.2	747.0	877.2	963.9	942.1	842.5	712.7	605.1	532.6	483.8	452.1
55°	554.7	665.5	789.2	858.9	818.6	708.3	598.5	511.9	458.3	421.7	397.0
57.5°	482.7	586.6	692.6	735.5	691.1	589.2	497.6	434.7	394.5	367.4	351.2
60°	438.2	529.0	623.3	660.4	607.2	516.5	444.3	388.2	355.7	333.6	319.1
62.5°	393.6	474.9	563.9	584.1	535.5	458.8	394.9	348.2	321.4	301.7	288.2
65°	333.1	399.5	467.1	480.5	435.7	376.4	325.8	295.4	271.7	257.2	246.4
67.5°	273.2	326.5	374.4	385.2	345.9	304.8	268.3	241.8	225.7	213.7	204.6
70°	237.6	279.9	319.1	327.9	296.4	259.8	232.0	210.9	196.4	186.1	177.3
72.5°	200.2	235.4	267.9	273.9	248.1	220.3	197.3	180.8	167.9	161.4	153.0
75°	153.1	173.7	198.9	200.6	183.5	166.5	149.0	138.1	131.5	123.2	119.1
77.5°	108.1	124.2	138.7	141.5	131.4	119.8	110.0	101.5	95.7	92.0	88.2
80°	82.5	95.3	101.6	105.1	98.0	89.7	84.0	78.4	74.7	72.2	69.6
82.5°	59.0	67.0	72.7	75.4	71.6	66.7	60.9	57.8	54.9	52.8	51.9
85°	29.9	33.5	37.2	38.2	37.2	35.0	31.9	31.9	30.4	29.9	29.9
87.5°	10.8	12.8	13.1	14.7	14.2	14.4	14.7	14.5	14.3	14.1	13.8
90°	2.4	4.1	5.9	7.6	9.1	10.4	11.6	12.9	14.1	14.9	15.8
92.5°	14.1	13.9	13.8	13.6	13.9	14.5	15.1	15.8	16.4	16.8	17.3
95°	40.8	35.5	30.4	25.2	23.1	24.2	25.3	26.5	27.6	28.4	29.2
97.5°	76.5	62.0	47.4	32.7	26.8	29.3	31.8	34.3	36.9	37.6	38.2
100°	103.6	82.1	60.6	39.1	29.6	32.3	34.9	37.7	40.3	41.5	42.8
102.5°	157.9	153.3	148.8	144.2	130.8	108.5	86.1	63.7	41.4	43.0	44.7
105°	219.6	224.4	229.0	233.8	214.7	171.8	128.9	86.0	43.1	44.8	46.6
107.5°	278.5	282.4	286.1	289.9	266.1	214.7	163.3	111.8	60.4	58.6	56.9
110°	316.5	319.8	323.1	326.4	305.3	259.9	214.5	169.2	123.7	108.1	92.3





TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	352.3	355.3	358.1	361.0	356.9	345.7	334.5	323.3	312.0	254.8	197.4
115°	409.2	411.8	414.5	417.2	420.5	424.4	428.4	432.2	436.2	363.5	290.7
117.5°	460.5	463.5	466.5	469.5	472.3	475.0	477.8	480.4	483.1	465.5	448.0
120°	497.3	499.6	501.9	504.3	506.9	509.7	512.5	515.3	518.2	520.1	522.0
122.5°	529.1	531.5	534.0	536.4	539.3	542.3	545.4	548.5	551.6	552.7	553.8
125°	576.8	578.9	580.9	582.9	585.4	588.4	591.4	594.4	597.3	598.4	599.6
127.5°	620.7	623.0	625.2	627.5	629.8	632.0	634.2	636.4	638.6	640.3	641.9
130°	648.6	651.2	653.7	656.2	658.3	660.0	661.8	663.5	665.3	667.0	668.7
132.5°	676.6	678.7	680.9	683.0	684.9	686.6	688.3	690.1	691.9	693.3	694.8
135°	713.7	716.2	718.7	721.2	723.3	724.7	726.1	727.5	728.9	730.4	732.1
137.5°	750.1	751.9	753.7	755.4	757.1	758.7	760.3	761.9	763.6	765.1	766.6
140°	774.0	775.2	776.5	777.7	779.2	780.9	782.6	784.4	786.2	787.6	789.0
142.5°	794.2	795.4	796.5	797.6	799.1	801.1	803.1	805.1	807.1	808.4	809.6
145°	824.9	824.8	824.6	824.4	825.7	828.3	831.0	833.6	836.4	837.5	838.5
147.5°	852.3	851.7	851.1	850.5	851.5	854.1	856.8	859.4	862.0	862.9	863.7
150°	869.9	868.8	867.7	866.6	867.3	869.8	872.3	874.8	877.4	878.3	879.2
152.5°	885.0	883.8	882.5	881.3	881.9	884.3	886.7	889.1	891.5	892.4	893.3
155°	907.1	905.6	904.2	902.8	903.0	904.9	906.8	908.7	910.6	911.5	912.4
157.5°	924.6	923.4	922.2	921.1	921.1	922.4	923.7	925.0	926.3	927.5	928.6
160°	935.0	934.1	933.2	932.2	932.2	933.2	934.1	935.0	936.0	937.0	937.9
162.5°	944.1	943.2	942.2	941.3	941.2	942.0	942.9	943.7	944.5	945.5	946.6
165°	956.2	955.3	954.4	953.4	953.2	953.7	954.1	954.6	955.1	956.2	957.4
167.5°	965.3	964.4	963.4	962.5	962.3	962.7	963.1	963.6	964.0	965.1	966.2
170°	970.4	969.5	968.6	967.6	967.2	967.6	968.0	968.3	968.6	969.7	970.8
172.5°	973.8	972.9	971.9	971.0	970.7	971.0	971.3	971.6	971.9	973.0	974.1
175°	978.1	976.9	975.8	974.7	974.3	974.6	975.0	975.3	975.6	976.7	977.9
177.5°	979.0	978.1	977.2	976.3	975.9	976.0	976.2	976.3	976.4	977.3	978.3
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0	977.0



TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1391.3	1397.0	1397.0	1397.9	1404.5	1403.6	1403.2
5°	1480.6	1489.3	1490.4	1499.6	1505.8	1503.8	1498.1
7.5°	1564.8	1581.1	1593.5	1600.3	1608.5	1613.6	1611.3
10°	1631.6	1655.4	1669.8	1679.6	1691.4	1700.2	1697.1
12.5°	1692.2	1720.5	1740.3	1757.1	1758.7	1769.9	1762.2
15°	1786.8	1816.6	1819.8	1832.2	1842.0	1840.9	1841.4
17.5°	1818.1	1827.7	1829.6	1829.9	1830.0	1826.3	1818.6
20°	1806.9	1803.3	1794.5	1787.9	1775.9	1774.4	1764.1
22.5°	1754.1	1742.6	1720.7	1706.2	1687.7	1682.8	1680.0
25°	1650.2	1624.9	1589.8	1556.3	1547.1	1529.0	1534.2
27.5°	1507.6	1468.2	1430.3	1403.0	1378.4	1351.4	1359.1
30°	1407.3	1363.0	1309.4	1268.2	1241.9	1216.1	1211.4
32.5°	1287.8	1222.8	1163.0	1126.7	1086.4	1070.2	1052.3
35°	1081.6	1018.1	958.9	907.9	878.5	855.8	835.2
37.5°	896.1	823.0	775.3	733.9	712.7	699.6	703.0
40°	781.0	717.1	682.1	650.6	631.0	621.7	623.8
42.5°	687.8	640.0	611.1	589.6	575.7	570.6	569.4
45°	582.0	555.2	531.5	519.2	512.4	506.8	503.1
47.5°	509.9	488.0	474.6	467.3	461.4	455.7	455.6
50°	466.6	452.1	442.8	435.0	430.5	426.4	429.9
52.5°	433.5	420.3	411.1	404.1	402.4	398.7	398.6
55°	384.6	374.3	367.6	361.3	358.3	356.2	353.7
57.5°	340.0	330.2	324.1	320.1	314.3	312.1	311.3
60°	308.3	300.5	294.4	289.2	286.6	282.5	282.5
62.5°	279.0	271.2	265.5	261.6	257.3	255.7	256.1
65°	236.6	230.5	224.8	220.7	219.6	216.5	217.5
67.5°	197.6	193.5	187.5	185.3	183.3	181.7	180.5
70°	171.7	167.5	164.4	161.4	159.8	159.8	159.8
72.5°	149.8	144.8	143.0	139.1	140.0	138.4	136.7
75°	116.0	112.9	111.4	109.8	107.2	107.2	107.2
77.5°	85.3	84.4	82.6	80.9	80.3	79.8	80.0
80°	65.9	65.4	64.4	64.4	63.4	62.9	61.9
82.5°	50.7	49.4	48.8	48.4	48.2	48.1	47.9
85°	28.9	27.9	27.9	28.4	27.4	27.4	27.9
87.5°	14.4	14.5	14.2	14.3	14.8	14.4	14.5
90°	16.5	17.3	17.9	18.2	18.5	18.8	19.1
92.5°	17.7	18.1	18.4	18.5	18.7	18.9	19.1
95°	29.9	30.7	31.0	30.9	30.7	30.6	30.4
97.5°	38.8	39.4	39.8	40.0	40.2	40.4	40.6
100°	44.0	45.3	46.2	46.5	46.8	47.1	47.4
102.5°	46.4	48.0	49.0	49.5	49.9	50.3	50.8
105°	48.3	50.0	51.2	51.8	52.5	53.1	53.7
107.5°	55.1	53.3	52.8	53.4	54.0	54.6	55.2
110°	76.5	60.9	53.3	53.9	54.6	55.2	55.8



TEST NUMBER: P331531-840

CATALOG NUMBER: S122DIW-S675D710U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	140.2	82.8	54.4	54.9	55.4	55.9	56.5
115°	217.9	145.2	103.2	91.9	80.6	69.3	58.0
117.5°	430.3	412.7	385.4	348.2	311.0	273.9	236.7
120°	523.8	525.7	516.0	494.8	473.6	452.4	431.2
122.5°	554.9	556.1	554.6	550.5	546.3	542.3	538.2
125°	600.7	601.8	602.6	603.0	603.5	604.0	604.4
127.5°	643.5	645.1	645.9	646.0	646.1	646.2	646.3
130°	670.4	672.2	673.0	672.8	672.7	672.5	672.4
132.5°	696.3	697.7	698.4	698.2	698.1	697.9	697.8
135°	733.6	735.2	735.8	735.5	735.2	734.9	734.6
137.5°	768.1	769.7	770.2	769.6	769.1	768.6	768.0
140°	790.4	791.8	792.1	791.3	790.5	789.7	789.0
142.5°	810.9	812.2	812.4	811.7	810.9	810.1	809.3
145°	839.6	840.7	840.9	840.1	839.3	838.5	837.8
147.5°	864.5	865.4	865.5	864.7	864.1	863.4	862.7
150°	880.2	881.1	881.2	880.4	879.6	878.8	878.1
152.5°	894.3	895.2	895.2	894.1	893.1	892.1	891.0
155°	913.4	914.3	914.1	912.9	911.7	910.4	909.2
157.5°	929.6	930.7	930.6	929.4	928.2	927.0	925.6
160°	938.9	939.8	939.7	938.6	937.5	936.4	935.3
162.5°	947.7	948.8	948.7	947.3	945.9	944.5	943.2
165°	958.4	959.5	959.5	958.4	957.4	956.2	955.1
167.5°	967.3	968.4	968.3	966.8	965.4	964.0	962.6
170°	971.8	972.9	972.8	971.4	970.0	968.6	967.1
172.5°	975.2	976.3	976.1	974.7	973.3	971.9	970.5
175°	978.9	980.0	979.8	978.2	976.6	975.0	973.5
177.5°	979.1	980.0	979.9	978.8	977.5	976.4	975.3
180°	977.0	977.0	977.0	977.0	977.0	977.0	977.0

(END OF REPORT)