

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: P331556-935

Luminaire Tested: **S122DIW-S865D435U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331556-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S865D435U935-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4574.0 lumens  
Efficiency: N/A  
Efficacy: 99.0 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: Semi-Direct

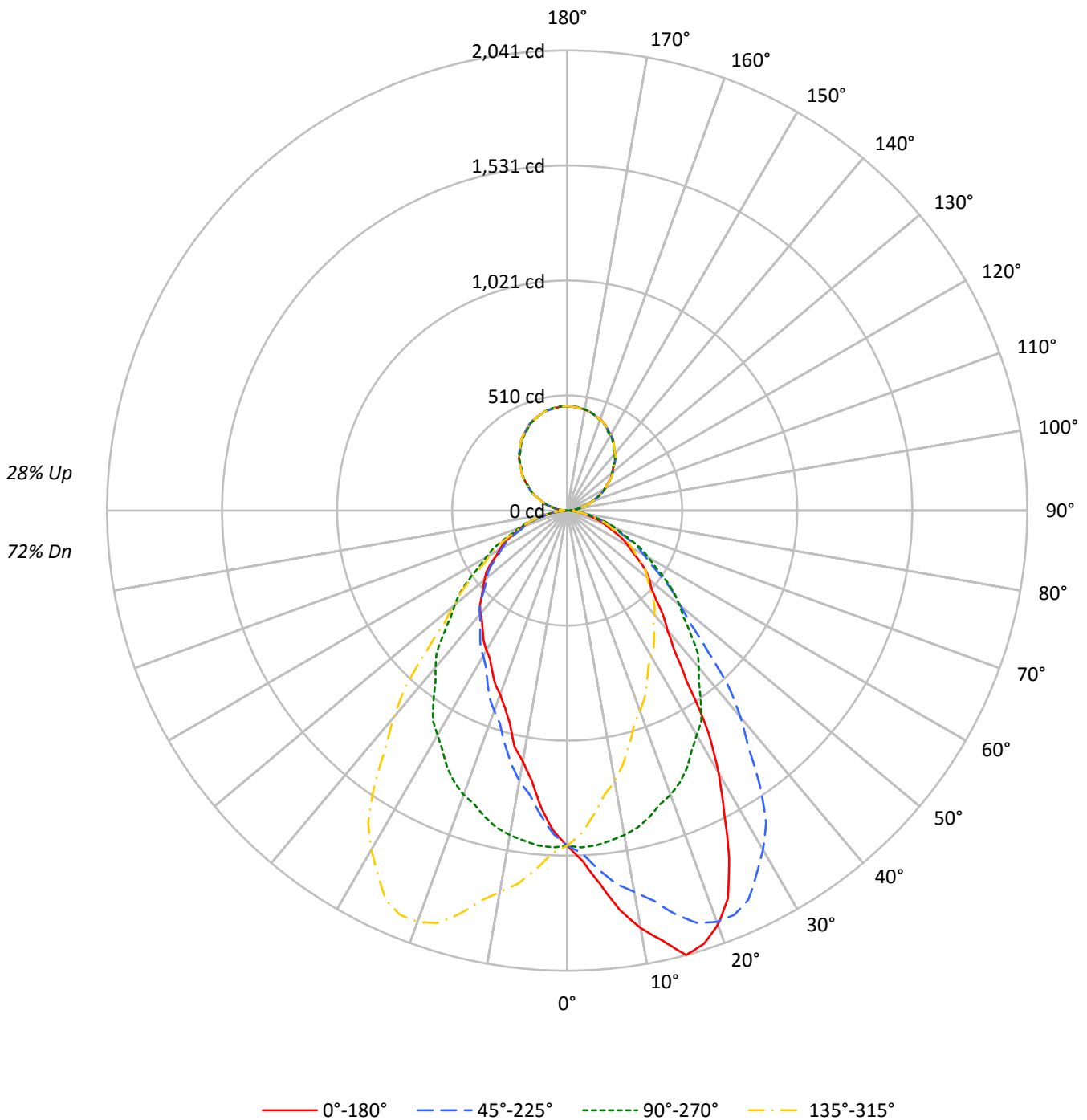
Input Watts (W): 46.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	103	99	95	92	98	94	91	88	85	82	80	76	74	73	68	67	66	62
2	95	87	81	76	90	83	78	73	75	71	67	68	65	62	61	59	56	53
3	87	78	70	64	82	74	67	62	67	62	58	61	57	53	55	52	49	46
4	80	69	61	55	76	66	59	53	60	54	50	55	50	46	49	46	43	40
5	74	62	54	48	70	59	52	47	54	48	44	49	44	41	45	41	38	35
6	68	56	48	42	65	54	46	41	49	43	38	45	40	36	41	37	34	31
7	63	51	43	38	60	49	42	36	45	39	34	41	36	32	38	33	30	28
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	35	30	27	25
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25	23
10	52	40	32	27	49	38	31	27	35	29	25	33	28	24	30	26	23	21

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

	0°	90°	180°	270°
0°	24001	24001	24001	24001
5°	26909	24159	21409	24159
10°	30836	23961	18528	23961
15°	34111	23520	16368	23520
20°	33593	23048	14921	23048
25°	30289	22422	14004	22422
30°	25031	21420	13336	21420
35°	18242	20371	12861	20371
40°	14570	19134	12596	19134
45°	12732	17701	12237	17701
50°	11969	16317	11997	16317
55°	11032	14908	11674	14908
60°	10111	13411	11179	13411
65°	9211	12069	10693	12069
70°	8360	10763	9980	10763
75°	7411	9301	8840	9301
80°	6369	7699	7113	7699
85°	5706	5706	4224	5706



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.6	3.1
10°-20°	411.6	9.0
20°-30°	597.3	13.1
30°-40°	630.3	13.8
40°-50°	558.1	12.2
50°-60°	445.4	9.7
60°-70°	302.7	6.6
70°-80°	155.2	3.4
80°-90°	39.3	0.9
90°-100°	29.3	0.6
100°-110°	91.0	2.0
110°-120°	155.5	3.4
120°-130°	204.5	4.5
130°-140°	229.5	5.0
140°-150°	225.0	4.9
150°-160°	188.8	4.1
160°-170°	125.2	2.7
170°-180°	43.8	1.0
0°-30°	1150.5	25.2
0°-40°	1780.8	38.9
0°-60°	2784.3	60.9
0°-90°	3281.5	71.7
90°-120°	275.7	6.0
90°-150°	934.8	20.4
90°-180°	1293.0	28.3
0°-180°	4574.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1486	1486	1486	1486	1486	
5°	1660	1491	1321	1491	1660	166
15°	2041	1407	979	1407	2041	563
25°	1700	1259	786	1259	1700	768
35°	926	1034	652	1034	926	602
45°	558	775	536	775	558	438
55°	392	530	415	530	392	351
65°	241	316	280	316	241	240
75°	119	149	142	149	119	127
85°	31	31	23	31	31	34
90°	13	0	13	0	13	7
95°	24	20	24	20	24	27
105°	87	84	87	84	87	91
115°	156	156	156	156	156	154
125°	228	227	228	227	228	203
135°	297	294	297	294	297	229
145°	360	356	360	356	360	225
155°	411	408	411	408	411	189
165°	444	444	444	444	444	125
175°	460	462	460	462	460	44
180°	462	462	462	462	462	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1555.1	1555.6	1556.5	1549.2	1548.3	1548.3	1541.9	1536.4	1530.0	1521.3	1522.2
5°	1660.3	1666.6	1668.8	1662.0	1651.7	1650.5	1640.8	1624.8	1610.0	1597.9	1589.4
7.5°	1785.7	1788.2	1782.6	1773.6	1765.9	1752.2	1734.1	1716.5	1691.7	1669.0	1652.0
10°	1880.8	1884.2	1874.5	1861.3	1850.5	1834.4	1808.2	1781.3	1748.8	1717.4	1692.2
12.5°	1953.0	1961.4	1949.0	1947.2	1928.6	1906.7	1875.4	1861.8	1816.0	1772.2	1745.2
15°	2040.7	2040.1	2041.3	2030.4	2016.7	2013.3	1980.2	1944.2	1879.6	1853.9	1809.4
17.5°	2015.3	2024.0	2028.1	2027.9	2027.6	2025.4	2014.8	1992.1	1959.7	1918.0	1866.6
20°	1955.1	1966.4	1968.2	1981.3	1988.7	1998.5	2002.4	1996.1	1976.2	1941.3	1896.8
22.5°	1861.8	1865.0	1870.4	1890.8	1906.9	1931.3	1944.0	1965.1	1957.4	1940.4	1903.2
25°	1700.2	1694.5	1714.5	1724.8	1762.0	1800.8	1828.8	1859.6	1887.1	1903.6	1892.7
27.5°	1506.2	1497.6	1527.6	1554.9	1585.0	1627.1	1670.8	1722.3	1765.1	1818.7	1837.1
30°	1342.6	1347.7	1376.3	1405.4	1451.1	1510.5	1559.7	1616.3	1677.4	1737.3	1779.1
32.5°	1166.1	1185.9	1204.0	1248.6	1288.9	1355.1	1427.1	1497.9	1574.1	1642.3	1706.8
35°	925.5	948.4	973.5	1006.1	1062.6	1128.3	1198.6	1294.0	1398.0	1491.2	1567.7
37.5°	779.0	775.4	789.8	813.3	859.1	912.1	993.1	1087.4	1209.7	1319.1	1427.1
40°	691.3	689.0	699.3	721.0	755.9	794.7	865.6	948.4	1062.0	1195.8	1324.3
42.5°	630.9	632.3	638.0	653.3	677.3	709.2	762.2	832.8	936.9	1062.7	1200.9
45°	557.6	561.6	567.9	575.3	589.0	615.3	645.0	695.3	777.6	882.7	1018.6
47.5°	504.8	504.9	511.3	517.8	526.0	540.8	565.0	596.6	654.6	740.2	857.1
50°	476.5	472.5	477.1	482.2	490.8	501.0	517.0	546.7	585.6	654.7	752.4
52.5°	441.8	441.9	446.0	447.9	455.6	465.9	480.4	501.0	536.2	590.3	670.6
55°	391.9	394.8	397.1	400.5	407.3	414.7	426.2	439.9	467.4	507.9	567.3
57.5°	345.1	345.9	348.3	354.8	359.1	366.0	376.9	389.3	407.1	437.1	481.8
60°	313.1	313.1	317.6	320.5	326.2	333.0	341.6	353.6	369.6	394.2	430.2
62.5°	283.9	283.4	285.2	289.9	294.2	300.7	309.2	319.3	334.4	356.3	385.9
65°	241.1	240.0	243.4	244.5	249.1	255.4	262.3	273.1	285.1	301.1	327.4
67.5°	199.9	201.3	203.2	205.3	207.8	214.5	219.0	226.7	236.9	250.1	267.9
70°	177.1	177.1	177.1	178.8	182.3	185.7	190.3	196.6	206.2	217.7	233.7
72.5°	151.5	153.3	155.2	154.1	158.5	160.6	166.0	169.5	178.8	186.1	200.3
75°	118.8	118.8	118.8	121.7	123.4	125.1	128.5	132.0	136.6	145.7	153.1
77.5°	88.7	88.4	89.0	89.7	91.5	93.6	94.6	97.7	101.9	106.2	112.4
80°	68.5	69.7	70.3	71.4	71.4	72.6	73.1	77.1	80.0	82.8	86.9
82.5°	53.0	53.2	53.4	53.6	54.1	54.8	56.2	57.5	58.5	60.9	64.0
85°	30.8	30.3	30.3	31.4	30.8	30.8	32.0	33.1	33.1	33.7	35.4
87.5°	14.6	14.6	15.0	14.5	14.5	14.9	15.0	14.6	15.1	15.5	15.6
90°	13.3	13.2	13.1	13.0	12.9	13.0	13.2	13.3	13.5	13.7	11.7
92.5°	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.5	12.4	12.4	12.0
95°	24.2	24.4	24.5	24.7	24.9	25.0	25.0	25.0	25.0	25.0	24.8
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.7
100°	53.5	53.6	53.6	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.6
102.5°	66.6	66.6	66.7	66.8	66.9	66.9	66.8	66.7	66.7	66.6	66.3
105°	86.6	86.6	86.6	86.6	86.6	86.5	86.4	86.2	86.0	85.8	85.7
107.5°	105.5	105.9	106.2	106.7	107.1	107.3	107.2	107.1	107.0	106.9	106.9
110°	120.1	120.4	120.6	120.9	121.1	121.3	121.3	121.3	121.3	121.3	121.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	134.2	134.4	134.6	134.7	134.9	135.2	135.3	135.6	135.8	136.0	136.0
115°	156.0	156.3	156.5	156.8	157.0	157.2	157.3	157.4	157.5	157.6	157.7
117.5°	176.8	177.1	177.4	177.6	177.9	178.1	178.3	178.6	178.7	179.0	179.4
120°	191.6	191.8	192.1	192.3	192.6	192.7	192.7	192.7	192.7	192.7	193.4
122.5°	205.9	206.0	206.3	206.5	206.6	206.8	207.1	207.2	207.5	207.7	208.2
125°	227.8	227.9	228.0	228.1	228.2	228.3	228.6	228.9	229.1	229.4	229.6
127.5°	247.8	248.1	248.3	248.6	248.9	249.2	249.5	249.8	250.1	250.5	250.7
130°	262.2	262.5	262.9	263.2	263.6	263.8	264.0	264.2	264.3	264.5	264.7
132.5°	275.9	276.1	276.4	276.7	277.0	277.3	277.7	278.1	278.4	278.8	278.8
135°	297.2	297.5	297.7	298.0	298.3	298.4	298.5	298.6	298.7	298.8	298.6
137.5°	316.6	316.9	317.3	317.6	318.0	318.2	318.2	318.3	318.4	318.5	318.2
140°	330.0	330.4	330.7	331.1	331.4	331.6	331.6	331.6	331.6	331.6	331.1
142.5°	342.2	342.5	342.9	343.2	343.5	343.7	343.6	343.5	343.5	343.5	343.1
145°	360.4	360.8	361.1	361.4	361.8	362.0	361.9	361.8	361.7	361.6	361.1
147.5°	376.8	377.0	377.4	377.7	378.1	378.2	378.0	377.7	377.5	377.4	377.0
150°	387.4	387.6	387.9	388.1	388.4	388.4	388.1	387.9	387.6	387.4	387.0
152.5°	397.4	397.7	398.0	398.3	398.6	398.6	398.3	398.0	397.7	397.4	396.9
155°	410.8	411.0	411.3	411.6	411.8	411.7	411.3	410.9	410.4	410.0	409.7
157.5°	422.3	422.8	423.1	423.5	424.0	423.9	423.3	422.7	422.1	421.5	421.4
160°	429.5	429.8	430.2	430.5	430.8	430.8	430.2	429.7	429.2	428.7	428.6
162.5°	435.8	436.1	436.5	437.0	437.4	437.3	436.7	436.1	435.5	435.0	434.9
165°	443.9	444.4	444.8	445.2	445.7	445.6	445.0	444.4	443.8	443.2	443.2
167.5°	450.6	451.1	451.5	451.9	452.5	452.4	451.8	451.2	450.6	450.0	450.0
170°	454.1	454.6	455.1	455.6	456.2	456.1	455.5	454.9	454.3	453.7	453.7
172.5°	456.8	457.4	457.9	458.4	458.9	458.9	458.3	457.7	457.1	456.5	456.6
175°	459.9	460.5	461.0	461.5	462.0	461.9	461.3	460.7	460.1	459.5	459.7
177.5°	461.3	461.8	462.2	462.5	463.0	463.0	462.5	462.2	461.8	461.3	461.4
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1525.4	1521.7	1519.5	1511.2	1503.9	1496.6	1494.4	1495.2	1485.2	1475.6	1471.4
5°	1584.8	1573.4	1562.5	1547.1	1528.9	1508.8	1498.6	1490.6	1470.6	1448.9	1436.3
7.5°	1638.1	1621.7	1600.9	1571.8	1545.2	1513.7	1493.7	1476.0	1446.8	1416.2	1397.4
10°	1670.5	1648.2	1621.3	1586.0	1553.4	1515.1	1488.2	1461.5	1427.1	1390.6	1367.7
12.5°	1698.4	1668.4	1641.9	1596.5	1558.0	1510.1	1478.3	1440.4	1404.3	1360.9	1338.5
15°	1764.8	1709.3	1659.1	1607.7	1560.2	1493.4	1458.0	1407.1	1359.7	1306.1	1280.3
17.5°	1816.1	1753.9	1674.6	1609.3	1553.9	1480.0	1428.0	1367.0	1311.0	1249.6	1214.6
20°	1845.4	1773.9	1688.8	1611.1	1544.8	1460.3	1403.7	1341.4	1275.7	1206.6	1168.9
22.5°	1862.7	1787.6	1703.4	1604.2	1526.6	1444.2	1373.1	1304.8	1238.3	1163.6	1124.1
25°	1868.2	1799.7	1710.5	1598.5	1503.7	1410.6	1324.9	1258.6	1178.0	1108.4	1050.7
27.5°	1841.0	1791.8	1706.2	1587.8	1477.3	1368.4	1272.9	1197.8	1112.8	1037.2	979.1
30°	1807.7	1779.1	1695.7	1576.8	1456.3	1339.2	1234.1	1148.9	1064.4	987.8	928.4
32.5°	1756.0	1749.8	1676.5	1561.3	1433.9	1302.2	1193.3	1107.3	1013.7	938.4	881.8
35°	1654.5	1682.0	1635.6	1526.6	1391.7	1249.5	1131.8	1033.5	936.4	864.4	811.2
37.5°	1518.5	1586.7	1574.5	1475.7	1334.8	1192.1	1062.2	959.5	866.9	794.3	742.1
40°	1424.9	1511.7	1524.2	1436.8	1294.6	1147.8	1010.1	907.8	817.5	751.3	698.7
42.5°	1324.3	1425.7	1460.3	1390.3	1250.7	1101.1	963.5	857.6	768.2	703.8	657.1
45°	1155.8	1290.0	1352.3	1312.3	1177.5	1024.3	882.7	775.2	694.1	633.6	597.6
47.5°	998.2	1144.9	1228.6	1214.5	1096.0	944.3	804.3	701.2	622.2	573.9	541.7
50°	886.7	1037.5	1138.6	1143.2	1037.5	887.3	746.7	649.6	577.0	531.9	505.6
52.5°	789.8	933.8	1044.0	1068.2	972.2	827.9	695.1	598.4	534.5	493.0	469.5
55°	663.3	785.0	907.2	951.8	874.7	737.5	614.8	529.6	469.6	441.1	420.5
57.5°	551.5	652.9	765.8	815.0	767.5	650.1	534.9	461.1	412.3	387.4	371.6
60°	492.5	572.5	673.0	731.8	690.7	586.2	485.6	415.3	375.4	353.1	338.2
62.5°	437.6	508.5	593.5	647.3	624.9	526.3	436.3	374.2	339.7	318.8	308.1
65°	361.1	417.1	482.8	532.4	517.6	442.7	369.1	315.9	288.5	271.9	263.4
67.5°	297.3	337.8	383.3	426.9	414.9	361.9	302.6	261.3	240.9	226.6	221.4
70°	257.1	287.9	328.5	363.3	353.6	310.2	263.4	228.0	210.3	198.3	193.1
72.5°	218.7	244.1	275.0	303.5	297.0	260.9	221.8	195.0	181.4	170.4	166.2
75°	165.1	184.5	203.4	222.2	220.5	192.5	169.7	149.1	138.3	129.7	127.9
77.5°	121.9	132.8	145.6	156.8	153.7	137.7	119.8	108.0	100.0	94.3	93.3
80°	93.2	99.4	108.6	116.6	112.5	105.7	91.4	82.8	77.1	71.4	69.1
82.5°	67.5	73.8	79.3	83.6	80.6	74.1	65.3	59.5	56.1	52.2	51.3
85°	35.4	38.8	41.2	42.3	41.2	37.1	33.1	30.8	28.0	26.3	25.7
87.5°	15.7	15.3	14.9	15.5	13.9	13.8	11.7	10.2	9.9	9.6	9.0
90°	9.8	7.9	6.0	4.6	3.5	2.5	1.5	0.4	1.5	2.5	3.5
92.5°	11.5	11.0	10.6	10.0	9.2	8.4	7.7	7.0	7.7	8.4	9.2
95°	24.6	24.5	24.3	23.8	22.9	22.0	21.2	20.3	21.2	22.0	22.9
97.5°	41.3	41.0	40.6	40.1	39.3	38.6	37.8	37.0	37.8	38.6	39.3
100°	53.3	53.0	52.8	52.3	51.7	50.9	50.2	49.5	50.2	50.9	51.7
102.5°	66.0	65.6	65.3	64.8	64.3	63.7	63.2	62.7	63.2	63.7	64.3
105°	85.5	85.3	85.2	84.9	84.6	84.4	84.1	83.9	84.1	84.4	84.6
107.5°	106.9	106.9	106.9	106.8	106.4	106.0	105.6	105.2	105.6	106.0	106.4
110°	121.3	121.3	121.3	121.1	120.5	120.0	119.5	119.0	119.5	120.0	120.5





TEST NUMBER: P331556-935

CATALOG NUMBER: S122DIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	136.1	136.2	136.3	136.0	135.5	135.0	134.5	134.0	134.5	135.0	135.5
115°	157.9	158.1	158.3	158.1	157.6	157.0	156.5	156.0	156.5	157.0	157.6
117.5°	179.9	180.5	180.9	180.8	180.1	179.4	178.7	178.1	178.7	179.4	180.1
120°	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7	193.4	194.1	194.8
122.5°	208.6	209.1	209.7	209.5	208.6	207.8	207.0	206.1	207.0	207.8	208.6
125°	229.9	230.1	230.4	230.1	229.4	228.6	227.8	227.0	227.8	228.6	229.4
127.5°	251.1	251.4	251.7	251.3	250.4	249.3	248.4	247.4	248.4	249.3	250.4
130°	264.8	265.0	265.2	264.7	263.6	262.4	261.3	260.2	261.3	262.4	263.6
132.5°	278.8	278.7	278.7	278.2	277.3	276.4	275.4	274.6	275.4	276.4	277.3
135°	298.4	298.3	298.1	297.6	296.6	295.7	294.7	293.8	294.7	295.7	296.6
137.5°	318.1	317.8	317.5	317.0	316.2	315.5	314.7	313.9	314.7	315.5	316.2
140°	330.7	330.3	329.8	329.2	328.5	327.7	326.9	326.1	326.9	327.7	328.5
142.5°	342.9	342.5	342.2	341.7	341.0	340.2	339.4	338.6	339.4	340.2	341.0
145°	360.6	360.1	359.6	359.0	358.3	357.7	357.1	356.5	357.1	357.7	358.3
147.5°	376.7	376.3	376.0	375.5	374.7	374.0	373.2	372.6	373.2	374.0	374.7
150°	386.7	386.3	386.0	385.6	385.0	384.5	384.0	383.5	384.0	384.5	385.0
152.5°	396.5	396.1	395.7	395.2	394.7	394.2	393.6	393.1	393.6	394.2	394.7
155°	409.5	409.2	409.0	408.7	408.5	408.1	407.9	407.6	407.9	408.1	408.5
157.5°	421.2	421.0	420.9	420.8	420.6	420.4	420.3	420.1	420.3	420.4	420.6
160°	428.5	428.4	428.3	428.3	428.1	427.9	427.7	427.6	427.7	427.9	428.1
162.5°	434.8	434.7	434.6	434.5	434.5	434.5	434.5	434.4	434.5	434.5	434.5
165°	443.2	443.2	443.2	443.2	443.2	443.3	443.4	443.5	443.4	443.3	443.2
167.5°	450.0	450.0	450.0	450.1	450.4	450.6	450.9	451.2	450.9	450.6	450.4
170°	453.8	453.9	454.0	454.2	454.4	454.7	455.0	455.2	455.0	454.7	454.4
172.5°	456.7	456.8	456.8	457.0	457.3	457.5	457.8	458.1	457.8	457.5	457.3
175°	459.9	460.0	460.2	460.5	460.7	461.0	461.2	461.5	461.2	461.0	460.7
177.5°	461.6	461.8	461.8	462.0	462.3	462.4	462.7	462.9	462.7	462.4	462.3
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331556-935

CATALOG NUMBER: S122DIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1466.9	1464.1	1454.6	1449.6	1441.3	1433.6	1428.5	1430.8	1432.6	1431.7	1430.4
5°	1424.9	1414.0	1397.4	1383.1	1372.9	1354.0	1346.0	1342.0	1338.6	1334.6	1330.6
7.5°	1374.8	1357.7	1333.9	1313.5	1294.3	1270.9	1257.6	1249.6	1241.4	1232.3	1224.3
10°	1339.2	1315.2	1290.0	1261.5	1238.6	1217.5	1198.6	1186.0	1174.7	1163.7	1155.8
12.5°	1301.7	1274.0	1242.9	1203.9	1178.7	1148.5	1145.6	1123.4	1105.6	1098.9	1089.5
15°	1242.1	1203.2	1163.7	1117.5	1097.5	1070.1	1052.9	1035.8	1020.4	1009.5	1006.7
17.5°	1174.3	1124.0	1084.8	1051.5	1018.7	990.7	974.9	961.2	948.5	934.0	932.0
20°	1122.7	1079.2	1036.4	1007.2	973.5	944.9	925.5	911.8	901.0	892.4	884.9
22.5°	1073.8	1026.2	987.0	955.1	921.9	898.8	883.5	870.2	861.2	851.7	844.7
25°	995.2	958.1	915.2	879.3	851.8	837.0	824.4	813.0	807.3	801.0	793.0
27.5°	926.5	885.3	845.2	817.3	793.2	780.1	771.2	763.4	758.0	754.3	749.8
30°	878.1	836.4	804.9	777.6	757.6	744.4	738.7	734.2	727.9	725.6	723.3
32.5°	831.5	793.9	767.1	743.3	724.2	715.7	710.4	706.3	701.4	699.0	694.5
35°	765.6	734.2	707.8	694.7	679.3	671.8	667.9	662.2	657.5	655.3	654.7
37.5°	703.5	676.2	658.9	642.0	635.5	630.9	625.5	621.6	620.2	619.8	619.3
40°	663.3	641.0	625.6	611.9	609.0	602.2	597.6	594.2	594.2	594.8	594.2
42.5°	626.7	606.7	593.1	581.3	577.9	573.9	569.3	569.0	570.0	571.9	570.0
45°	571.3	557.1	547.3	541.6	535.3	531.3	530.7	532.4	533.0	533.6	535.3
47.5°	520.4	510.8	502.0	495.8	493.0	492.3	491.6	494.6	497.4	498.4	501.0
50°	490.2	479.3	471.9	467.9	465.6	464.5	465.6	469.1	471.3	474.2	475.9
52.5°	456.3	448.7	443.6	440.5	439.5	440.2	440.5	444.4	448.1	449.0	449.9
55°	409.7	403.9	402.8	397.6	399.9	399.3	402.2	404.5	407.9	411.4	411.9
57.5°	363.0	358.4	355.3	355.9	356.5	359.0	361.4	365.4	369.1	372.7	373.1
60°	331.9	329.7	328.0	328.0	329.1	332.5	335.4	339.3	341.6	344.0	345.6
62.5°	303.6	301.4	299.6	300.5	303.5	305.6	308.8	311.0	313.3	315.6	316.4
65°	258.8	257.7	259.4	260.5	261.1	264.0	267.9	269.7	271.9	273.1	277.1
67.5°	217.6	217.7	217.6	219.1	222.5	223.2	227.0	230.9	231.4	233.6	236.2
70°	189.7	190.8	192.0	193.1	196.0	197.1	199.9	201.6	204.0	205.7	207.4
72.5°	164.1	164.3	165.5	165.2	167.6	170.1	172.5	174.3	176.5	178.7	180.4
75°	126.2	126.2	127.4	127.9	130.9	133.7	133.1	134.2	136.6	138.8	140.0
77.5°	92.2	90.9	92.2	92.8	93.7	96.1	96.5	98.2	100.7	100.0	101.3
80°	70.3	68.5	70.3	70.9	70.9	73.7	73.7	74.8	76.5	74.8	76.5
82.5°	50.2	49.3	50.6	50.7	51.7	51.7	52.7	52.9	54.6	53.8	54.6
85°	25.1	24.5	25.1	24.5	25.1	25.7	25.7	25.1	25.1	26.3	24.5
87.5°	8.7	8.5	8.4	8.8	8.8	8.7	8.2	8.2	8.1	7.1	7.1
90°	4.6	6.0	7.9	9.8	11.7	13.7	13.5	13.3	13.2	13.0	12.9
92.5°	10.0	10.6	11.0	11.5	12.0	12.4	12.4	12.5	12.5	12.6	12.6
95°	23.8	24.3	24.5	24.6	24.8	25.0	25.0	25.0	25.0	25.0	24.9
97.5°	40.1	40.6	41.0	41.3	41.7	41.9	41.9	41.9	41.9	41.9	41.9
100°	52.3	52.8	53.0	53.3	53.6	53.8	53.8	53.8	53.8	53.8	53.8
102.5°	64.8	65.3	65.6	66.0	66.3	66.6	66.7	66.7	66.8	66.9	66.9
105°	84.9	85.2	85.3	85.5	85.7	85.8	86.0	86.2	86.4	86.5	86.6
107.5°	106.8	106.9	106.9	106.9	106.9	106.9	107.0	107.1	107.2	107.3	107.1
110°	121.1	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.1



TEST NUMBER: P331556-935

CATALOG NUMBER: S122DIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	136.0	136.3	136.2	136.1	136.0	136.0	135.8	135.6	135.3	135.2	134.9
115°	158.1	158.3	158.1	157.9	157.7	157.6	157.5	157.4	157.3	157.2	157.0
117.5°	180.8	180.9	180.5	179.9	179.4	179.0	178.7	178.6	178.3	178.1	177.9
120°	195.4	195.4	194.8	194.1	193.4	192.7	192.7	192.7	192.7	192.7	192.6
122.5°	209.5	209.7	209.1	208.6	208.2	207.7	207.5	207.2	207.1	206.8	206.6
125°	230.1	230.4	230.1	229.9	229.6	229.4	229.1	228.9	228.6	228.3	228.2
127.5°	251.3	251.7	251.4	251.1	250.7	250.5	250.1	249.8	249.5	249.2	248.9
130°	264.7	265.2	265.0	264.8	264.7	264.5	264.3	264.2	264.0	263.8	263.6
132.5°	278.2	278.7	278.7	278.8	278.8	278.8	278.4	278.1	277.7	277.3	277.0
135°	297.6	298.1	298.3	298.4	298.6	298.8	298.7	298.6	298.5	298.4	298.3
137.5°	317.0	317.5	317.8	318.1	318.2	318.5	318.4	318.3	318.2	318.2	318.0
140°	329.2	329.8	330.3	330.7	331.1	331.6	331.6	331.6	331.6	331.6	331.4
142.5°	341.7	342.2	342.5	342.9	343.1	343.5	343.5	343.5	343.6	343.7	343.5
145°	359.0	359.6	360.1	360.6	361.1	361.6	361.7	361.8	361.9	362.0	361.8
147.5°	375.5	376.0	376.3	376.7	377.0	377.4	377.5	377.7	378.0	378.2	378.1
150°	385.6	386.0	386.3	386.7	387.0	387.4	387.6	387.9	388.1	388.4	388.4
152.5°	395.2	395.7	396.1	396.5	396.9	397.4	397.7	398.0	398.3	398.6	398.6
155°	408.7	409.0	409.2	409.5	409.7	410.0	410.4	410.9	411.3	411.7	411.8
157.5°	420.8	420.9	421.0	421.2	421.4	421.5	422.1	422.7	423.3	423.9	424.0
160°	428.3	428.3	428.4	428.5	428.6	428.7	429.2	429.7	430.2	430.8	430.8
162.5°	434.5	434.6	434.7	434.8	434.9	435.0	435.5	436.1	436.7	437.3	437.4
165°	443.2	443.2	443.2	443.2	443.2	443.2	443.8	444.4	445.0	445.6	445.7
167.5°	450.1	450.0	450.0	450.0	450.0	450.0	450.6	451.2	451.8	452.4	452.5
170°	454.2	454.0	453.9	453.8	453.7	453.7	454.3	454.9	455.5	456.1	456.2
172.5°	457.0	456.8	456.8	456.7	456.6	456.5	457.1	457.7	458.3	458.9	458.9
175°	460.5	460.2	460.0	459.9	459.7	459.5	460.1	460.7	461.3	461.9	462.0
177.5°	462.0	461.8	461.8	461.6	461.4	461.3	461.8	462.2	462.5	463.0	463.0
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331556-935

CATALOG NUMBER: S122DIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1425.7	1424.9	1424.9	1420.7	1424.9	1424.9	1425.7	1430.4	1431.7	1432.6	1430.8
5°	1322.6	1320.9	1318.0	1320.9	1318.0	1320.9	1322.6	1330.6	1334.6	1338.6	1342.0
7.5°	1220.6	1213.7	1212.6	1205.9	1212.6	1213.7	1220.6	1224.3	1232.3	1241.4	1249.6
10°	1146.1	1141.5	1140.9	1130.1	1140.9	1141.5	1146.1	1155.8	1163.7	1174.7	1186.0
12.5°	1089.4	1078.4	1080.6	1074.3	1080.6	1078.4	1089.4	1089.5	1098.9	1105.6	1123.4
15°	991.3	991.3	988.9	979.2	988.9	991.3	991.3	1006.7	1009.5	1020.4	1035.8
17.5°	920.8	919.5	914.1	916.9	914.1	919.5	920.8	932.0	934.0	948.5	961.2
20°	878.7	875.3	868.4	868.4	868.4	875.3	878.7	884.9	892.4	901.0	911.8
22.5°	839.0	838.7	831.4	833.6	831.4	838.7	839.0	844.7	851.7	861.2	870.2
25°	792.4	787.8	784.5	786.1	784.5	787.8	792.4	793.0	801.0	807.3	813.0
27.5°	748.3	745.8	745.5	740.9	745.5	745.8	748.3	749.8	754.3	758.0	763.4
30°	722.7	717.0	718.2	715.3	718.2	717.0	722.7	723.3	725.6	727.9	734.2
32.5°	693.4	691.4	690.3	687.9	690.3	691.4	693.4	694.5	699.0	701.4	706.3
35°	653.6	654.2	651.3	652.5	651.3	654.2	653.6	654.7	655.3	657.5	662.2
37.5°	618.7	620.5	619.2	619.6	619.2	620.5	618.7	619.3	619.8	620.2	621.6
40°	595.9	595.9	595.9	597.6	595.9	595.9	595.9	594.2	594.8	594.2	594.2
42.5°	573.9	573.0	572.1	572.0	572.1	573.0	573.9	570.0	571.9	570.0	569.0
45°	536.5	538.2	538.7	535.9	538.7	538.2	536.5	535.3	533.6	533.0	532.4
47.5°	502.6	502.7	502.6	505.1	502.6	502.7	502.6	501.0	498.4	497.4	494.6
50°	478.8	477.6	478.8	477.6	478.8	477.6	478.8	475.9	474.2	471.3	469.1
52.5°	453.7	453.8	453.1	453.0	453.1	453.8	453.7	449.9	449.0	448.1	444.4
55°	414.2	415.3	414.7	414.7	414.7	415.3	414.2	411.9	411.4	407.9	404.5
57.5°	373.4	374.4	375.2	372.7	375.2	374.4	373.4	373.1	372.7	369.1	365.4
60°	345.1	347.9	347.3	346.2	347.3	347.9	345.1	345.6	344.0	341.6	339.3
62.5°	319.0	320.0	319.9	319.7	319.9	320.0	319.0	316.4	315.6	313.3	311.0
65°	278.8	279.9	278.2	279.9	278.2	279.9	278.8	277.1	273.1	271.9	269.7
67.5°	235.5	235.8	237.1	237.9	237.1	235.8	235.5	236.2	233.6	231.4	230.9
70°	208.5	207.9	209.7	211.4	209.7	207.9	208.5	207.4	205.7	204.0	201.6
72.5°	180.2	181.4	180.9	182.1	180.9	181.4	180.2	180.4	178.7	176.5	174.3
75°	138.8	140.5	140.0	141.7	140.0	140.5	138.8	140.0	138.8	136.6	134.2
77.5°	100.3	100.6	100.3	101.3	100.3	100.6	100.3	101.3	100.0	100.7	98.2
80°	76.5	75.4	74.3	76.5	74.3	75.4	76.5	76.5	74.8	76.5	74.8
82.5°	53.2	53.9	52.8	52.8	52.8	53.9	53.2	54.6	53.8	54.6	52.9
85°	24.5	24.0	22.8	22.8	22.8	24.0	24.5	24.5	26.3	25.1	25.1
87.5°	7.1	6.7	6.7	6.3	6.7	6.7	7.1	7.1	7.1	8.1	8.2
90°	13.0	13.1	13.2	13.3	13.2	13.1	13.0	12.9	13.0	13.2	13.3
92.5°	12.6	12.6	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.5
95°	24.7	24.5	24.4	24.2	24.4	24.5	24.7	24.9	25.0	25.0	25.0
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
100°	53.7	53.6	53.6	53.5	53.6	53.6	53.7	53.8	53.8	53.8	53.8
102.5°	66.8	66.7	66.6	66.6	66.6	66.7	66.8	66.9	66.9	66.8	66.7
105°	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.5	86.4	86.2
107.5°	106.7	106.2	105.9	105.5	105.9	106.2	106.7	107.1	107.3	107.2	107.1
110°	120.9	120.6	120.4	120.1	120.4	120.6	120.9	121.1	121.3	121.3	121.3



TEST NUMBER: P331556-935

CATALOG NUMBER: S122DIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	134.7	134.6	134.4	134.2	134.4	134.6	134.7	134.9	135.2	135.3	135.6
115°	156.8	156.5	156.3	156.0	156.3	156.5	156.8	157.0	157.2	157.3	157.4
117.5°	177.6	177.4	177.1	176.8	177.1	177.4	177.6	177.9	178.1	178.3	178.6
120°	192.3	192.1	191.8	191.6	191.8	192.1	192.3	192.6	192.7	192.7	192.7
122.5°	206.5	206.3	206.0	205.9	206.0	206.3	206.5	206.6	206.8	207.1	207.2
125°	228.1	228.0	227.9	227.8	227.9	228.0	228.1	228.2	228.3	228.6	228.9
127.5°	248.6	248.3	248.1	247.8	248.1	248.3	248.6	248.9	249.2	249.5	249.8
130°	263.2	262.9	262.5	262.2	262.5	262.9	263.2	263.6	263.8	264.0	264.2
132.5°	276.7	276.4	276.1	275.9	276.1	276.4	276.7	277.0	277.3	277.7	278.1
135°	298.0	297.7	297.5	297.2	297.5	297.7	298.0	298.3	298.4	298.5	298.6
137.5°	317.6	317.3	316.9	316.6	316.9	317.3	317.6	318.0	318.2	318.2	318.3
140°	331.1	330.7	330.4	330.0	330.4	330.7	331.1	331.4	331.6	331.6	331.6
142.5°	343.2	342.9	342.5	342.2	342.5	342.9	343.2	343.5	343.7	343.6	343.5
145°	361.4	361.1	360.8	360.4	360.8	361.1	361.4	361.8	362.0	361.9	361.8
147.5°	377.7	377.4	377.0	376.8	377.0	377.4	377.7	378.1	378.2	378.0	377.7
150°	388.1	387.9	387.6	387.4	387.6	387.9	388.1	388.4	388.4	388.1	387.9
152.5°	398.3	398.0	397.7	397.4	397.7	398.0	398.3	398.6	398.6	398.3	398.0
155°	411.6	411.3	411.0	410.8	411.0	411.3	411.6	411.8	411.7	411.3	410.9
157.5°	423.5	423.1	422.8	422.3	422.8	423.1	423.5	424.0	423.9	423.3	422.7
160°	430.5	430.2	429.8	429.5	429.8	430.2	430.5	430.8	430.8	430.2	429.7
162.5°	437.0	436.5	436.1	435.8	436.1	436.5	437.0	437.4	437.3	436.7	436.1
165°	445.2	444.8	444.4	443.9	444.4	444.8	445.2	445.7	445.6	445.0	444.4
167.5°	451.9	451.5	451.1	450.6	451.1	451.5	451.9	452.5	452.4	451.8	451.2
170°	455.6	455.1	454.6	454.1	454.6	455.1	455.6	456.2	456.1	455.5	454.9
172.5°	458.4	457.9	457.4	456.8	457.4	457.9	458.4	458.9	458.9	458.3	457.7
175°	461.5	461.0	460.5	459.9	460.5	461.0	461.5	462.0	461.9	461.3	460.7
177.5°	462.5	462.2	461.8	461.3	461.8	462.2	462.5	463.0	463.0	462.5	462.2
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331556-935

CATALOG NUMBER: S122DIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1428.5	1433.6	1441.3	1449.6	1454.6	1464.1	1466.9	1471.4	1475.6	1485.2	1495.2
5°	1346.0	1354.0	1372.9	1383.1	1397.4	1414.0	1424.9	1436.3	1448.9	1470.6	1490.6
7.5°	1257.6	1270.9	1294.3	1313.5	1333.9	1357.7	1374.8	1397.4	1416.2	1446.8	1476.0
10°	1198.6	1217.5	1238.6	1261.5	1290.0	1315.2	1339.2	1367.7	1390.6	1427.1	1461.5
12.5°	1145.6	1148.5	1178.7	1203.9	1242.9	1274.0	1301.7	1338.5	1360.9	1404.3	1440.4
15°	1052.9	1070.1	1097.5	1117.5	1163.7	1203.2	1242.1	1280.3	1306.1	1359.7	1407.1
17.5°	974.9	990.7	1018.7	1051.5	1084.8	1124.0	1174.3	1214.6	1249.6	1311.0	1367.0
20°	925.5	944.9	973.5	1007.2	1036.4	1079.2	1122.7	1168.9	1206.6	1275.7	1341.4
22.5°	883.5	898.8	921.9	955.1	987.0	1026.2	1073.8	1124.1	1163.6	1238.3	1304.8
25°	824.4	837.0	851.8	879.3	915.2	958.1	995.2	1050.7	1108.4	1178.0	1258.6
27.5°	771.2	780.1	793.2	817.3	845.2	885.3	926.5	979.1	1037.2	1112.8	1197.8
30°	738.7	744.4	757.6	777.6	804.9	836.4	878.1	928.4	987.8	1064.4	1148.9
32.5°	710.4	715.7	724.2	743.3	767.1	793.9	831.5	881.8	938.4	1013.7	1107.3
35°	667.9	671.8	679.3	694.7	707.8	734.2	765.6	811.2	864.4	936.4	1033.5
37.5°	625.5	630.9	635.5	642.0	658.9	676.2	703.5	742.1	794.3	866.9	959.5
40°	597.6	602.2	609.0	611.9	625.6	641.0	663.3	698.7	751.3	817.5	907.8
42.5°	569.3	573.9	577.9	581.3	593.1	606.7	626.7	657.1	703.8	768.2	857.6
45°	530.7	531.3	535.3	541.6	547.3	557.1	571.3	597.6	633.6	694.1	775.2
47.5°	491.6	492.3	493.0	495.8	502.0	510.8	520.4	541.7	573.9	622.2	701.2
50°	465.6	464.5	465.6	467.9	471.9	479.3	490.2	505.6	531.9	577.0	649.6
52.5°	440.5	440.2	439.5	440.5	443.6	448.7	456.3	469.5	493.0	534.5	598.4
55°	402.2	399.3	399.9	397.6	402.8	403.9	409.7	420.5	441.1	469.6	529.6
57.5°	361.4	359.0	356.5	355.9	355.3	358.4	363.0	371.6	387.4	412.3	461.1
60°	335.4	332.5	329.1	328.0	328.0	329.7	331.9	338.2	353.1	375.4	415.3
62.5°	308.8	305.6	303.5	300.5	299.6	301.4	303.6	308.1	318.8	339.7	374.2
65°	267.9	264.0	261.1	260.5	259.4	257.7	258.8	263.4	271.9	288.5	315.9
67.5°	227.0	223.2	222.5	219.1	217.6	217.7	217.6	221.4	226.6	240.9	261.3
70°	199.9	197.1	196.0	193.1	192.0	190.8	189.7	193.1	198.3	210.3	228.0
72.5°	172.5	170.1	167.6	165.2	165.5	164.3	164.1	166.2	170.4	181.4	195.0
75°	133.1	133.7	130.9	127.9	127.4	126.2	126.2	127.9	129.7	138.3	149.1
77.5°	96.5	96.1	93.7	92.8	92.2	90.9	92.2	93.3	94.3	100.0	108.0
80°	73.7	73.7	70.9	70.9	70.3	68.5	70.3	69.1	71.4	77.1	82.8
82.5°	52.7	51.7	51.7	50.7	50.6	49.3	50.2	51.3	52.2	56.1	59.5
85°	25.7	25.7	25.1	24.5	25.1	24.5	25.1	25.7	26.3	28.0	30.8
87.5°	8.2	8.7	8.8	8.8	8.4	8.5	8.7	9.0	9.6	9.9	10.2
90°	13.5	13.7	11.7	9.8	7.9	6.0	4.6	3.5	2.5	1.5	0.4
92.5°	12.4	12.4	12.0	11.5	11.0	10.6	10.0	9.2	8.4	7.7	7.0
95°	25.0	25.0	24.8	24.6	24.5	24.3	23.8	22.9	22.0	21.2	20.3
97.5°	41.9	41.9	41.7	41.3	41.0	40.6	40.1	39.3	38.6	37.8	37.0
100°	53.8	53.8	53.6	53.3	53.0	52.8	52.3	51.7	50.9	50.2	49.5
102.5°	66.7	66.6	66.3	66.0	65.6	65.3	64.8	64.3	63.7	63.2	62.7
105°	86.0	85.8	85.7	85.5	85.3	85.2	84.9	84.6	84.4	84.1	83.9
107.5°	107.0	106.9	106.9	106.9	106.9	106.9	106.8	106.4	106.0	105.6	105.2
110°	121.3	121.3	121.3	121.3	121.3	121.3	121.1	120.5	120.0	119.5	119.0



TEST NUMBER: P331556-935

CATALOG NUMBER: S122DIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	135.8	136.0	136.0	136.1	136.2	136.3	136.0	135.5	135.0	134.5	134.0
115°	157.5	157.6	157.7	157.9	158.1	158.3	158.1	157.6	157.0	156.5	156.0
117.5°	178.7	179.0	179.4	179.9	180.5	180.9	180.8	180.1	179.4	178.7	178.1
120°	192.7	192.7	193.4	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7
122.5°	207.5	207.7	208.2	208.6	209.1	209.7	209.5	208.6	207.8	207.0	206.1
125°	229.1	229.4	229.6	229.9	230.1	230.4	230.1	229.4	228.6	227.8	227.0
127.5°	250.1	250.5	250.7	251.1	251.4	251.7	251.3	250.4	249.3	248.4	247.4
130°	264.3	264.5	264.7	264.8	265.0	265.2	264.7	263.6	262.4	261.3	260.2
132.5°	278.4	278.8	278.8	278.8	278.7	278.7	278.2	277.3	276.4	275.4	274.6
135°	298.7	298.8	298.6	298.4	298.3	298.1	297.6	296.6	295.7	294.7	293.8
137.5°	318.4	318.5	318.2	318.1	317.8	317.5	317.0	316.2	315.5	314.7	313.9
140°	331.6	331.6	331.1	330.7	330.3	329.8	329.2	328.5	327.7	326.9	326.1
142.5°	343.5	343.5	343.1	342.9	342.5	342.2	341.7	341.0	340.2	339.4	338.6
145°	361.7	361.6	361.1	360.6	360.1	359.6	359.0	358.3	357.7	357.1	356.5
147.5°	377.5	377.4	377.0	376.7	376.3	376.0	375.5	374.7	374.0	373.2	372.6
150°	387.6	387.4	387.0	386.7	386.3	386.0	385.6	385.0	384.5	384.0	383.5
152.5°	397.7	397.4	396.9	396.5	396.1	395.7	395.2	394.7	394.2	393.6	393.1
155°	410.4	410.0	409.7	409.5	409.2	409.0	408.7	408.5	408.1	407.9	407.6
157.5°	422.1	421.5	421.4	421.2	421.0	420.9	420.8	420.6	420.4	420.3	420.1
160°	429.2	428.7	428.6	428.5	428.4	428.3	428.3	428.1	427.9	427.7	427.6
162.5°	435.5	435.0	434.9	434.8	434.7	434.6	434.5	434.5	434.5	434.5	434.4
165°	443.8	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.3	443.4	443.5
167.5°	450.6	450.0	450.0	450.0	450.0	450.0	450.1	450.4	450.6	450.9	451.2
170°	454.3	453.7	453.7	453.8	453.9	454.0	454.2	454.4	454.7	455.0	455.2
172.5°	457.1	456.5	456.6	456.7	456.8	456.8	457.0	457.3	457.5	457.8	458.1
175°	460.1	459.5	459.7	459.9	460.0	460.2	460.5	460.7	461.0	461.2	461.5
177.5°	461.8	461.3	461.4	461.6	461.8	461.8	462.0	462.3	462.4	462.7	462.9
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331556-935

CATALOG NUMBER: S122DIW-S865D435U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1494.4	1496.6	1503.9	1511.2	1519.5	1521.7	1525.4	1522.2	1521.3	1530.0	1536.4
5°	1498.6	1508.8	1528.9	1547.1	1562.5	1573.4	1584.8	1589.4	1597.9	1610.0	1624.8
7.5°	1493.7	1513.7	1545.2	1571.8	1600.9	1621.7	1638.1	1652.0	1669.0	1691.7	1716.5
10°	1488.2	1515.1	1553.4	1586.0	1621.3	1648.2	1670.5	1692.2	1717.4	1748.8	1781.3
12.5°	1478.3	1510.1	1558.0	1596.5	1641.9	1668.4	1698.4	1745.2	1772.2	1816.0	1861.8
15°	1458.0	1493.4	1560.2	1607.7	1659.1	1709.3	1764.8	1809.4	1853.9	1879.6	1944.2
17.5°	1428.0	1480.0	1553.9	1609.3	1674.6	1753.9	1816.1	1866.6	1918.0	1959.7	1992.1
20°	1403.7	1460.3	1544.8	1611.1	1688.8	1773.9	1845.4	1896.8	1941.3	1976.2	1996.1
22.5°	1373.1	1444.2	1526.6	1604.2	1703.4	1787.6	1862.7	1903.2	1940.4	1957.4	1965.1
25°	1324.9	1410.6	1503.7	1598.5	1710.5	1799.7	1868.2	1892.7	1903.6	1887.1	1859.6
27.5°	1272.9	1368.4	1477.3	1587.8	1706.2	1791.8	1841.0	1837.1	1818.7	1765.1	1722.3
30°	1234.1	1339.2	1456.3	1576.8	1695.7	1779.1	1807.7	1779.1	1737.3	1677.4	1616.3
32.5°	1193.3	1302.2	1433.9	1561.3	1676.5	1749.8	1756.0	1706.8	1642.3	1574.1	1497.9
35°	1131.8	1249.5	1391.7	1526.6	1635.6	1682.0	1654.5	1567.7	1491.2	1398.0	1294.0
37.5°	1062.2	1192.1	1334.8	1475.7	1574.5	1586.7	1518.5	1427.1	1319.1	1209.7	1087.4
40°	1010.1	1147.8	1294.6	1436.8	1524.2	1511.7	1424.9	1324.3	1195.8	1062.0	948.4
42.5°	963.5	1101.1	1250.7	1390.3	1460.3	1425.7	1324.3	1200.9	1062.7	936.9	832.8
45°	882.7	1024.3	1177.5	1312.3	1352.3	1290.0	1155.8	1018.6	882.7	777.6	695.3
47.5°	804.3	944.3	1096.0	1214.5	1228.6	1144.9	998.2	857.1	740.2	654.6	596.6
50°	746.7	887.3	1037.5	1143.2	1138.6	1037.5	886.7	752.4	654.7	585.6	546.7
52.5°	695.1	827.9	972.2	1068.2	1044.0	933.8	789.8	670.6	590.3	536.2	501.0
55°	614.8	737.5	874.7	951.8	907.2	785.0	663.3	567.3	507.9	467.4	439.9
57.5°	534.9	650.1	767.5	815.0	765.8	652.9	551.5	481.8	437.1	407.1	389.3
60°	485.6	586.2	690.7	731.8	673.0	572.5	492.5	430.2	394.2	369.6	353.6
62.5°	436.3	526.3	624.9	647.3	593.5	508.5	437.6	385.9	356.3	334.4	319.3
65°	369.1	442.7	517.6	532.4	482.8	417.1	361.1	327.4	301.1	285.1	273.1
67.5°	302.6	361.9	414.9	426.9	383.3	337.8	297.3	267.9	250.1	236.9	226.7
70°	263.4	310.2	353.6	363.3	328.5	287.9	257.1	233.7	217.7	206.2	196.6
72.5°	221.8	260.9	297.0	303.5	275.0	244.1	218.7	200.3	186.1	178.8	169.5
75°	169.7	192.5	220.5	222.2	203.4	184.5	165.1	153.1	145.7	136.6	132.0
77.5°	119.8	137.7	153.7	156.8	145.6	132.8	121.9	112.4	106.2	101.9	97.7
80°	91.4	105.7	112.5	116.6	108.6	99.4	93.2	86.9	82.8	80.0	77.1
82.5°	65.3	74.1	80.6	83.6	79.3	73.8	67.5	64.0	60.9	58.5	57.5
85°	33.1	37.1	41.2	42.3	41.2	38.8	35.4	35.4	33.7	33.1	33.1
87.5°	11.7	13.8	13.9	15.5	14.9	15.3	15.7	15.6	15.5	15.1	14.6
90°	1.5	2.5	3.5	4.6	6.0	7.9	9.8	11.7	13.7	13.5	13.3
92.5°	7.7	8.4	9.2	10.0	10.6	11.0	11.5	12.0	12.4	12.4	12.5
95°	21.2	22.0	22.9	23.8	24.3	24.5	24.6	24.8	25.0	25.0	25.0
97.5°	37.8	38.6	39.3	40.1	40.6	41.0	41.3	41.7	41.9	41.9	41.9
100°	50.2	50.9	51.7	52.3	52.8	53.0	53.3	53.6	53.8	53.8	53.8
102.5°	63.2	63.7	64.3	64.8	65.3	65.6	66.0	66.3	66.6	66.7	66.7
105°	84.1	84.4	84.6	84.9	85.2	85.3	85.5	85.7	85.8	86.0	86.2
107.5°	105.6	106.0	106.4	106.8	106.9	106.9	106.9	106.9	106.9	107.0	107.1
110°	119.5	120.0	120.5	121.1	121.3	121.3	121.3	121.3	121.3	121.3	121.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	134.5	135.0	135.5	136.0	136.3	136.2	136.1	136.0	136.0	135.8	135.6
115°	156.5	157.0	157.6	158.1	158.3	158.1	157.9	157.7	157.6	157.5	157.4
117.5°	178.7	179.4	180.1	180.8	180.9	180.5	179.9	179.4	179.0	178.7	178.6
120°	193.4	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7	192.7	192.7
122.5°	207.0	207.8	208.6	209.5	209.7	209.1	208.6	208.2	207.7	207.5	207.2
125°	227.8	228.6	229.4	230.1	230.4	230.1	229.9	229.6	229.4	229.1	228.9
127.5°	248.4	249.3	250.4	251.3	251.7	251.4	251.1	250.7	250.5	250.1	249.8
130°	261.3	262.4	263.6	264.7	265.2	265.0	264.8	264.7	264.5	264.3	264.2
132.5°	275.4	276.4	277.3	278.2	278.7	278.7	278.8	278.8	278.8	278.4	278.1
135°	294.7	295.7	296.6	297.6	298.1	298.3	298.4	298.6	298.8	298.7	298.6
137.5°	314.7	315.5	316.2	317.0	317.5	317.8	318.1	318.2	318.5	318.4	318.3
140°	326.9	327.7	328.5	329.2	329.8	330.3	330.7	331.1	331.6	331.6	331.6
142.5°	339.4	340.2	341.0	341.7	342.2	342.5	342.9	343.1	343.5	343.5	343.5
145°	357.1	357.7	358.3	359.0	359.6	360.1	360.6	361.1	361.6	361.7	361.8
147.5°	373.2	374.0	374.7	375.5	376.0	376.3	376.7	377.0	377.4	377.5	377.7
150°	384.0	384.5	385.0	385.6	386.0	386.3	386.7	387.0	387.4	387.6	387.9
152.5°	393.6	394.2	394.7	395.2	395.7	396.1	396.5	396.9	397.4	397.7	398.0
155°	407.9	408.1	408.5	408.7	409.0	409.2	409.5	409.7	410.0	410.4	410.9
157.5°	420.3	420.4	420.6	420.8	420.9	421.0	421.2	421.4	421.5	422.1	422.7
160°	427.7	427.9	428.1	428.3	428.3	428.4	428.5	428.6	428.7	429.2	429.7
162.5°	434.5	434.5	434.5	434.5	434.6	434.7	434.8	434.9	435.0	435.5	436.1
165°	443.4	443.3	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.8	444.4
167.5°	450.9	450.6	450.4	450.1	450.0	450.0	450.0	450.0	450.0	450.6	451.2
170°	455.0	454.7	454.4	454.2	454.0	453.9	453.8	453.7	453.7	454.3	454.9
172.5°	457.8	457.5	457.3	457.0	456.8	456.8	456.7	456.6	456.5	457.1	457.7
175°	461.2	461.0	460.7	460.5	460.2	460.0	459.9	459.7	459.5	460.1	460.7
177.5°	462.7	462.4	462.3	462.0	461.8	461.8	461.6	461.4	461.3	461.8	462.2
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1541.9	1548.3	1548.3	1549.2	1556.5	1555.6	1555.1
5°	1640.8	1650.5	1651.7	1662.0	1668.8	1666.6	1660.3
7.5°	1734.1	1752.2	1765.9	1773.6	1782.6	1788.2	1785.7
10°	1808.2	1834.4	1850.5	1861.3	1874.5	1884.2	1880.8
12.5°	1875.4	1906.7	1928.6	1947.2	1949.0	1961.4	1953.0
15°	1980.2	2013.3	2016.7	2030.4	2041.3	2040.1	2040.7
17.5°	2014.8	2025.4	2027.6	2027.9	2028.1	2024.0	2015.3
20°	2002.4	1998.5	1988.7	1981.3	1968.2	1966.4	1955.1
22.5°	1944.0	1931.3	1906.9	1890.8	1870.4	1865.0	1861.8
25°	1828.8	1800.8	1762.0	1724.8	1714.5	1694.5	1700.2
27.5°	1670.8	1627.1	1585.0	1554.9	1527.6	1497.6	1506.2
30°	1559.7	1510.5	1451.1	1405.4	1376.3	1347.7	1342.6
32.5°	1427.1	1355.1	1288.9	1248.6	1204.0	1185.9	1166.1
35°	1198.6	1128.3	1062.6	1006.1	973.5	948.4	925.5
37.5°	993.1	912.1	859.1	813.3	789.8	775.4	779.0
40°	865.6	794.7	755.9	721.0	699.3	689.0	691.3
42.5°	762.2	709.2	677.3	653.3	638.0	632.3	630.9
45°	645.0	615.3	589.0	575.3	567.9	561.6	557.6
47.5°	565.0	540.8	526.0	517.8	511.3	504.9	504.8
50°	517.0	501.0	490.8	482.2	477.1	472.5	476.5
52.5°	480.4	465.9	455.6	447.9	446.0	441.9	441.8
55°	426.2	414.7	407.3	400.5	397.1	394.8	391.9
57.5°	376.9	366.0	359.1	354.8	348.3	345.9	345.1
60°	341.6	333.0	326.2	320.5	317.6	313.1	313.1
62.5°	309.2	300.7	294.2	289.9	285.2	283.4	283.9
65°	262.3	255.4	249.1	244.5	243.4	240.0	241.1
67.5°	219.0	214.5	207.8	205.3	203.2	201.3	199.9
70°	190.3	185.7	182.3	178.8	177.1	177.1	177.1
72.5°	166.0	160.6	158.5	154.1	155.2	153.3	151.5
75°	128.5	125.1	123.4	121.7	118.8	118.8	118.8
77.5°	94.6	93.6	91.5	89.7	89.0	88.4	88.7
80°	73.1	72.6	71.4	71.4	70.3	69.7	68.5
82.5°	56.2	54.8	54.1	53.6	53.4	53.2	53.0
85°	32.0	30.8	30.8	31.4	30.3	30.3	30.8
87.5°	15.0	14.9	14.5	14.5	15.0	14.6	14.6
90°	13.2	13.0	12.9	13.0	13.1	13.2	13.3
92.5°	12.5	12.6	12.6	12.6	12.6	12.7	12.7
95°	25.0	25.0	24.9	24.7	24.5	24.4	24.2
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9
100°	53.8	53.8	53.8	53.7	53.6	53.6	53.5
102.5°	66.8	66.9	66.9	66.8	66.7	66.6	66.6
105°	86.4	86.5	86.6	86.6	86.6	86.6	86.6
107.5°	107.2	107.3	107.1	106.7	106.2	105.9	105.5
110°	121.3	121.3	121.1	120.9	120.6	120.4	120.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	135.3	135.2	134.9	134.7	134.6	134.4	134.2
115°	157.3	157.2	157.0	156.8	156.5	156.3	156.0
117.5°	178.3	178.1	177.9	177.6	177.4	177.1	176.8
120°	192.7	192.7	192.6	192.3	192.1	191.8	191.6
122.5°	207.1	206.8	206.6	206.5	206.3	206.0	205.9
125°	228.6	228.3	228.2	228.1	228.0	227.9	227.8
127.5°	249.5	249.2	248.9	248.6	248.3	248.1	247.8
130°	264.0	263.8	263.6	263.2	262.9	262.5	262.2
132.5°	277.7	277.3	277.0	276.7	276.4	276.1	275.9
135°	298.5	298.4	298.3	298.0	297.7	297.5	297.2
137.5°	318.2	318.2	318.0	317.6	317.3	316.9	316.6
140°	331.6	331.6	331.4	331.1	330.7	330.4	330.0
142.5°	343.6	343.7	343.5	343.2	342.9	342.5	342.2
145°	361.9	362.0	361.8	361.4	361.1	360.8	360.4
147.5°	378.0	378.2	378.1	377.7	377.4	377.0	376.8
150°	388.1	388.4	388.4	388.1	387.9	387.6	387.4
152.5°	398.3	398.6	398.6	398.3	398.0	397.7	397.4
155°	411.3	411.7	411.8	411.6	411.3	411.0	410.8
157.5°	423.3	423.9	424.0	423.5	423.1	422.8	422.3
160°	430.2	430.8	430.8	430.5	430.2	429.8	429.5
162.5°	436.7	437.3	437.4	437.0	436.5	436.1	435.8
165°	445.0	445.6	445.7	445.2	444.8	444.4	443.9
167.5°	451.8	452.4	452.5	451.9	451.5	451.1	450.6
170°	455.5	456.1	456.2	455.6	455.1	454.6	454.1
172.5°	458.3	458.9	458.9	458.4	457.9	457.4	456.8
175°	461.3	461.9	462.0	461.5	461.0	460.5	459.9
177.5°	462.5	463.0	463.0	462.5	462.2	461.8	461.3
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3

(END OF REPORT)