

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: P331555-935

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331555-935
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-S865D435U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4771.3 lumens
Efficiency: N/A
Efficacy: 103.3 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

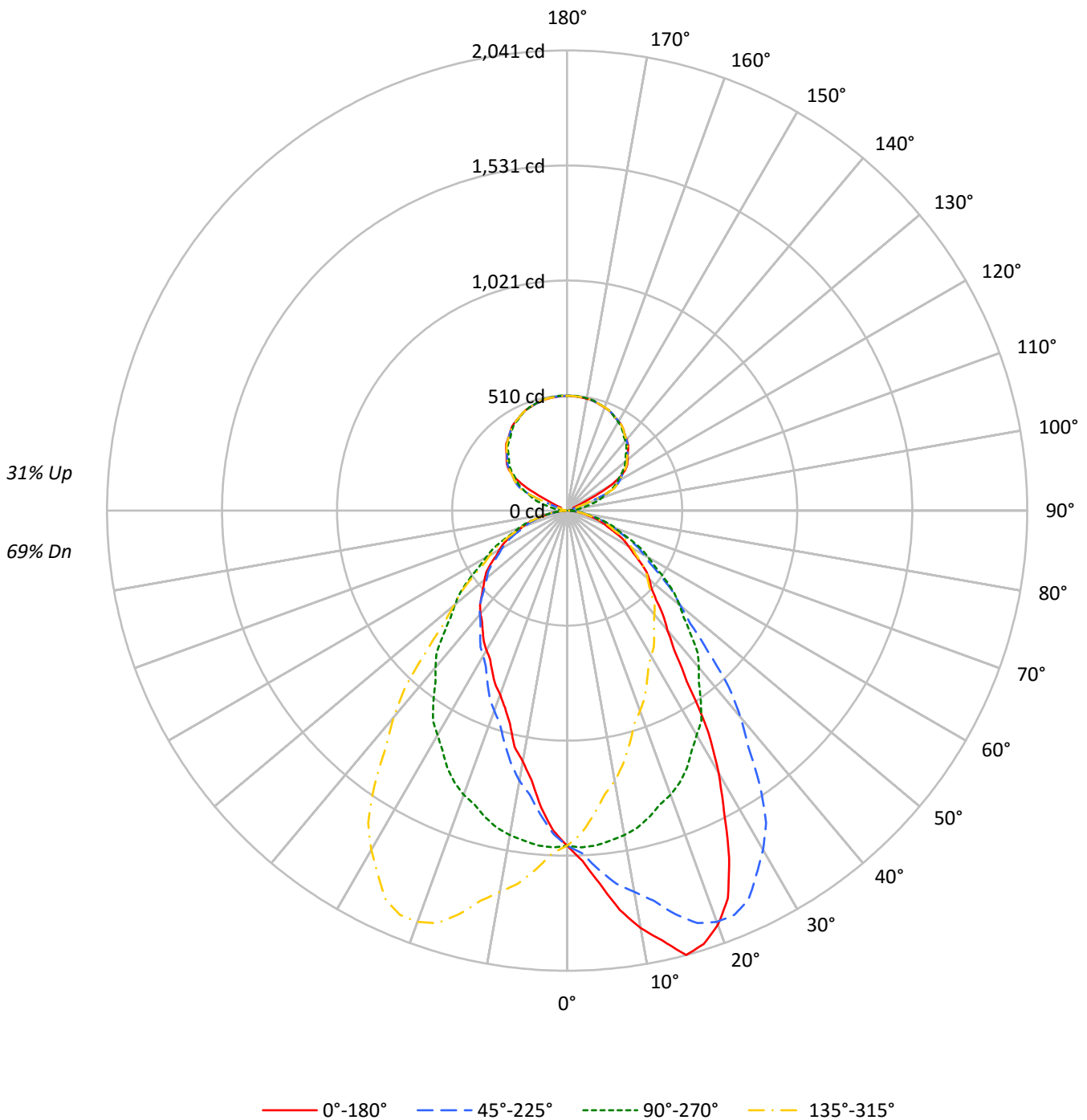
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	69
1	103	98	95	91	97	93	90	87	83	81	79	74	72	71	66	65	63	59
2	94	87	81	76	89	82	77	72	74	70	66	66	63	60	59	56	54	51
3	86	77	70	64	81	73	67	61	66	61	56	59	55	52	53	50	47	44
4	79	69	61	55	75	65	58	53	59	53	49	53	49	45	48	44	41	38
5	73	62	54	48	69	59	51	46	53	47	43	48	43	39	43	39	36	34
6	68	56	48	42	64	53	46	40	48	42	38	44	39	35	39	35	32	30
7	63	51	43	37	59	48	41	36	44	38	34	40	35	31	36	32	29	27
8	59	46	38	33	55	44	37	32	40	34	30	37	32	28	33	29	26	24
9	55	42	35	30	52	41	34	29	37	31	27	34	29	26	31	27	24	22
10	51	39	32	27	49	38	31	26	35	29	25	32	27	23	29	25	22	20

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	3.0
10°-20°	411.6	8.6
20°-30°	597.3	12.5
30°-40°	630.3	13.2
40°-50°	558.1	11.7
50°-60°	445.4	9.3
60°-70°	302.7	6.3
70°-80°	155.2	3.3
80°-90°	38.7	0.8
90°-100°	17.0	0.4
100°-110°	62.2	1.3
110°-120°	166.3	3.5
120°-130°	274.5	5.8
130°-140°	291.9	6.1
140°-150°	271.3	5.7
150°-160°	218.2	4.6
160°-170°	140.6	2.9
170°-180°	48.4	1.0
0°-30°	1150.5	24.1
0°-40°	1780.8	37.3
0°-60°	2784.3	58.4
0°-90°	3280.9	68.8
90°-120°	245.5	5.1
90°-150°	1083.3	22.7
90°-180°	1490.0	31.2
0°-180°	4771.3	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°	10	0	10	0	10	6
95°	16	24	16	24	16	15
105°	28	112	28	112	28	29
115°	30	212	30	212	30	76
125°	315	299	315	299	315	272
135°	382	370	382	370	382	295
145°	436	430	436	430	436	273
155°	473	473	473	473	473	218
165°	497	498	497	498	497	140
175°	507	510	507	510	507	48
180°	509	509	509	509	509	



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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°	13.9	13.9	14.3	13.8	13.8	14.1	14.0	13.5	13.9	14.3	14.6
90°	9.9	9.8	9.6	9.5	9.3	9.0	8.6	8.2	7.7	7.3	6.7
92.5°	9.9	9.8	9.7	9.6	9.6	9.4	9.2	9.0	8.8	8.5	8.2
95°	15.8	15.9	16.0	16.1	16.2	16.0	15.6	15.2	14.7	14.4	13.8
97.5°	21.1	21.0	20.9	20.8	20.8	20.5	20.2	19.9	19.5	19.2	17.9
100°	24.6	24.5	24.4	24.2	24.0	23.6	22.9	22.3	21.6	21.0	19.5
102.5°	26.4	26.2	26.0	25.7	25.5	25.0	24.1	23.2	22.4	21.5	33.2
105°	28.0	27.6	27.3	26.9	26.7	26.1	25.1	24.3	23.3	22.5	44.8
107.5°	28.8	28.4	28.2	27.8	27.5	27.7	28.7	29.6	30.5	31.4	58.2
110°	29.1	28.8	28.4	28.1	27.7	31.7	39.9	48.0	56.2	64.4	88.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	29.4	29.1	28.8	28.6	28.3	43.1	72.9	102.8	132.6	162.5	168.2
115°	30.1	36.1	41.9	47.9	53.7	75.6	113.5	151.4	189.2	227.0	225.0
117.5°	123.2	142.6	161.9	181.2	200.6	214.8	224.0	233.2	242.4	251.5	250.1
120°	224.5	235.5	246.6	257.6	268.6	273.7	272.7	271.7	270.7	269.8	268.3
122.5°	280.1	282.2	284.4	286.5	288.7	289.5	288.9	288.3	287.7	287.1	285.5
125°	314.6	314.4	314.2	313.9	313.7	313.2	312.7	312.1	311.5	311.0	309.4
127.5°	336.4	336.4	336.3	336.3	336.2	335.8	334.9	334.2	333.3	332.4	331.3
130°	350.0	350.1	350.2	350.3	350.3	349.9	349.0	348.1	347.2	346.3	345.4
132.5°	363.3	363.3	363.3	363.4	363.5	363.2	362.4	361.7	360.9	360.2	359.2
135°	382.4	382.5	382.7	382.9	383.0	382.7	381.9	381.1	380.2	379.4	378.7
137.5°	399.8	400.1	400.4	400.6	400.9	400.6	399.8	399.1	398.2	397.4	396.6
140°	410.7	411.1	411.5	411.9	412.3	412.2	411.5	410.7	409.9	409.2	408.3
142.5°	421.3	421.7	422.1	422.5	422.9	422.8	422.1	421.5	420.8	420.1	419.0
145°	436.1	436.5	436.9	437.3	437.7	437.6	437.0	436.5	435.9	435.3	433.9
147.5°	449.1	449.4	449.8	450.1	450.5	450.5	450.0	449.6	449.2	448.8	447.4
150°	457.1	457.4	457.9	458.3	458.7	458.7	458.1	457.7	457.2	456.7	455.4
152.5°	463.8	464.3	464.9	465.5	466.0	466.1	465.5	465.0	464.5	464.1	462.8
155°	473.3	473.9	474.6	475.2	475.9	476.0	475.4	475.0	474.5	474.0	473.0
157.5°	481.9	482.5	483.1	483.8	484.4	484.5	483.9	483.4	482.8	482.2	481.6
160°	486.9	487.4	488.0	488.6	489.1	489.2	488.7	488.2	487.8	487.2	486.7
162.5°	491.0	491.7	492.4	493.1	493.8	493.9	493.4	492.8	492.2	491.6	491.2
165°	497.1	497.7	498.3	498.9	499.5	499.5	498.9	498.3	497.7	497.1	497.0
167.5°	501.1	501.8	502.6	503.3	504.0	504.1	503.5	503.0	502.4	501.8	501.6
170°	503.4	504.2	504.9	505.7	506.4	506.4	505.9	505.3	504.7	504.2	504.0
172.5°	505.2	505.9	506.7	507.4	508.2	508.2	507.6	507.0	506.5	505.9	505.8
175°	506.8	507.6	508.4	509.2	510.1	510.1	509.5	509.0	508.4	507.8	507.6
177.5°	507.7	508.2	508.9	509.5	510.1	510.1	509.6	509.2	508.8	508.2	508.2
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



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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°	14.9	14.8	14.6	15.4	13.9	13.7	11.7	10.2	9.8	9.6	8.9
90°	6.0	5.4	4.7	4.0	3.1	2.2	1.3	0.3	1.3	2.2	3.1
92.5°	7.9	7.6	7.2	7.1	7.1	7.2	7.3	7.4	7.3	7.2	7.1
95°	13.2	12.7	12.1	13.1	15.8	18.5	21.2	23.9	21.2	18.5	15.8
97.5°	16.5	15.2	13.9	17.0	24.6	32.3	39.9	47.4	39.9	32.3	24.6
100°	18.2	16.8	15.4	20.3	31.5	42.7	53.9	65.2	53.9	42.7	31.5
102.5°	44.9	56.5	68.1	75.1	77.5	79.8	82.2	84.6	82.2	79.8	77.5
105°	67.1	89.5	111.8	121.7	119.2	116.8	114.3	111.8	114.3	116.8	119.2
107.5°	85.0	111.8	138.5	150.9	149.0	147.0	145.0	143.0	145.0	147.0	149.0
110°	111.7	135.3	158.9	169.9	168.2	166.4	164.7	163.0	164.7	166.4	168.2



TEST NUMBER: P331555-935

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	174.1	179.9	185.8	188.0	186.4	184.9	183.4	181.8	183.4	184.9	186.4
115°	223.0	220.9	218.9	217.1	215.8	214.4	213.0	211.6	213.0	214.4	215.8
117.5°	248.7	247.3	245.9	244.4	242.8	241.3	239.7	238.2	239.7	241.3	242.8
120°	266.8	265.4	263.9	262.5	261.3	260.0	258.8	257.6	258.8	260.0	261.3
122.5°	283.9	282.3	280.7	279.2	277.9	276.6	275.3	274.1	275.3	276.6	277.9
125°	307.9	306.3	304.7	303.4	302.4	301.4	300.2	299.2	300.2	301.4	302.4
127.5°	330.1	329.0	327.8	326.7	325.5	324.3	323.1	321.9	323.1	324.3	325.5
130°	344.5	343.6	342.7	341.6	340.3	339.0	337.7	336.4	337.7	339.0	340.3
132.5°	358.3	357.4	356.5	355.5	354.4	353.3	352.1	351.1	352.1	353.3	354.4
135°	378.0	377.2	376.4	375.5	374.1	372.8	371.5	370.2	371.5	372.8	374.1
137.5°	395.8	394.9	394.1	393.2	392.4	391.4	390.5	389.6	390.5	391.4	392.4
140°	407.4	406.6	405.6	404.8	404.2	403.6	402.9	402.3	402.9	403.6	404.2
142.5°	418.0	417.0	416.0	415.2	414.6	414.0	413.5	412.8	413.5	414.0	414.6
145°	432.6	431.2	429.8	429.1	429.2	429.3	429.4	429.5	429.4	429.3	429.2
147.5°	446.0	444.6	443.2	442.7	443.1	443.3	443.7	443.9	443.7	443.3	443.1
150°	454.1	452.8	451.4	451.1	451.7	452.2	452.8	453.4	452.8	452.2	451.7
152.5°	461.6	460.3	459.1	458.7	459.4	460.0	460.7	461.3	460.7	460.0	459.4
155°	472.0	471.1	470.1	469.9	470.7	471.4	472.2	472.9	472.2	471.4	470.7
157.5°	480.9	480.2	479.5	479.5	480.1	480.7	481.3	481.9	481.3	480.7	480.1
160°	486.3	485.8	485.3	485.3	485.8	486.3	486.7	487.2	486.7	486.3	485.8
162.5°	490.8	490.3	490.0	490.0	490.5	490.9	491.5	492.0	491.5	490.9	490.5
165°	496.7	496.5	496.2	496.3	496.8	497.3	497.8	498.3	497.8	497.3	496.8
167.5°	501.4	501.1	500.9	501.0	501.5	502.0	502.5	503.0	502.5	502.0	501.5
170°	503.9	503.7	503.5	503.7	504.2	504.6	505.1	505.7	505.1	504.6	504.2
172.5°	505.6	505.4	505.3	505.4	505.9	506.4	507.0	507.4	507.0	506.4	505.9
175°	507.6	507.4	507.2	507.4	508.0	508.5	509.1	509.7	509.1	508.5	508.0
177.5°	508.2	508.1	508.0	508.2	508.7	509.1	509.6	510.1	509.6	509.1	508.7
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



TEST NUMBER: P331555-935

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

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°	8.5	8.3	7.9	8.1	7.7	7.4	7.1	7.1	7.2	6.4	6.5
90°	4.0	4.7	5.4	6.0	6.7	7.3	7.7	8.2	8.6	9.0	9.3
92.5°	7.1	7.2	7.6	7.9	8.2	8.5	8.8	9.0	9.2	9.4	9.6
95°	13.1	12.1	12.7	13.2	13.8	14.4	14.7	15.2	15.6	16.0	16.2
97.5°	17.0	13.9	15.2	16.5	17.9	19.2	19.5	19.9	20.2	20.5	20.8
100°	20.3	15.4	16.8	18.2	19.5	21.0	21.6	22.3	22.9	23.6	24.0
102.5°	75.1	68.1	56.5	44.9	33.2	21.5	22.4	23.2	24.1	25.0	25.5
105°	121.7	111.8	89.5	67.1	44.8	22.5	23.3	24.3	25.1	26.1	26.7
107.5°	150.9	138.5	111.8	85.0	58.2	31.4	30.5	29.6	28.7	27.7	27.5
110°	169.9	158.9	135.3	111.7	88.0	64.4	56.2	48.0	39.9	31.7	27.7



TEST NUMBER: P331555-935

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	188.0	185.8	179.9	174.1	168.2	162.5	132.6	102.8	72.9	43.1	28.3
115°	217.1	218.9	220.9	223.0	225.0	227.0	189.2	151.4	113.5	75.6	53.7
117.5°	244.4	245.9	247.3	248.7	250.1	251.5	242.4	233.2	224.0	214.8	200.6
120°	262.5	263.9	265.4	266.8	268.3	269.8	270.7	271.7	272.7	273.7	268.6
122.5°	279.2	280.7	282.3	283.9	285.5	287.1	287.7	288.3	288.9	289.5	288.7
125°	303.4	304.7	306.3	307.9	309.4	311.0	311.5	312.1	312.7	313.2	313.7
127.5°	326.7	327.8	329.0	330.1	331.3	332.4	333.3	334.2	334.9	335.8	336.2
130°	341.6	342.7	343.6	344.5	345.4	346.3	347.2	348.1	349.0	349.9	350.3
132.5°	355.5	356.5	357.4	358.3	359.2	360.2	360.9	361.7	362.4	363.2	363.5
135°	375.5	376.4	377.2	378.0	378.7	379.4	380.2	381.1	381.9	382.7	383.0
137.5°	393.2	394.1	394.9	395.8	396.6	397.4	398.2	399.1	399.8	400.6	400.9
140°	404.8	405.6	406.6	407.4	408.3	409.2	409.9	410.7	411.5	412.2	412.3
142.5°	415.2	416.0	417.0	418.0	419.0	420.1	420.8	421.5	422.1	422.8	422.9
145°	429.1	429.8	431.2	432.6	433.9	435.3	435.9	436.5	437.0	437.6	437.7
147.5°	442.7	443.2	444.6	446.0	447.4	448.8	449.2	449.6	450.0	450.5	450.5
150°	451.1	451.4	452.8	454.1	455.4	456.7	457.2	457.7	458.1	458.7	458.7
152.5°	458.7	459.1	460.3	461.6	462.8	464.1	464.5	465.0	465.5	466.1	466.0
155°	469.9	470.1	471.1	472.0	473.0	474.0	474.5	475.0	475.4	476.0	475.9
157.5°	479.5	479.5	480.2	480.9	481.6	482.2	482.8	483.4	483.9	484.5	484.4
160°	485.3	485.3	485.8	486.3	486.7	487.2	487.8	488.2	488.7	489.2	489.1
162.5°	490.0	490.0	490.3	490.8	491.2	491.6	492.2	492.8	493.4	493.9	493.8
165°	496.3	496.2	496.5	496.7	497.0	497.1	497.7	498.3	498.9	499.5	499.5
167.5°	501.0	500.9	501.1	501.4	501.6	501.8	502.4	503.0	503.5	504.1	504.0
170°	503.7	503.5	503.7	503.9	504.0	504.2	504.7	505.3	505.9	506.4	506.4
172.5°	505.4	505.3	505.4	505.6	505.8	505.9	506.5	507.0	507.6	508.2	508.2
175°	507.4	507.2	507.4	507.6	507.6	507.8	508.4	509.0	509.5	510.1	510.1
177.5°	508.2	508.0	508.1	508.2	508.2	508.2	508.8	509.2	509.6	510.1	510.1
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



TEST NUMBER: P331555-935

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

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°	6.5	6.0	6.0	5.7	6.0	6.0	6.5	6.5	6.4	7.2	7.1
90°	9.5	9.6	9.8	9.9	9.8	9.6	9.5	9.3	9.0	8.6	8.2
92.5°	9.6	9.7	9.8	9.9	9.8	9.7	9.6	9.6	9.4	9.2	9.0
95°	16.1	16.0	15.9	15.8	15.9	16.0	16.1	16.2	16.0	15.6	15.2
97.5°	20.8	20.9	21.0	21.1	21.0	20.9	20.8	20.8	20.5	20.2	19.9
100°	24.2	24.4	24.5	24.6	24.5	24.4	24.2	24.0	23.6	22.9	22.3
102.5°	25.7	26.0	26.2	26.4	26.2	26.0	25.7	25.5	25.0	24.1	23.2
105°	26.9	27.3	27.6	28.0	27.6	27.3	26.9	26.7	26.1	25.1	24.3
107.5°	27.8	28.2	28.4	28.8	28.4	28.2	27.8	27.5	27.7	28.7	29.6
110°	28.1	28.4	28.8	29.1	28.8	28.4	28.1	27.7	31.7	39.9	48.0



TEST NUMBER: P331555-935

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	28.6	28.8	29.1	29.4	29.1	28.8	28.6	28.3	43.1	72.9	102.8
115°	47.9	41.9	36.1	30.1	36.1	41.9	47.9	53.7	75.6	113.5	151.4
117.5°	181.2	161.9	142.6	123.2	142.6	161.9	181.2	200.6	214.8	224.0	233.2
120°	257.6	246.6	235.5	224.5	235.5	246.6	257.6	268.6	273.7	272.7	271.7
122.5°	286.5	284.4	282.2	280.1	282.2	284.4	286.5	288.7	289.5	288.9	288.3
125°	313.9	314.2	314.4	314.6	314.4	314.2	313.9	313.7	313.2	312.7	312.1
127.5°	336.3	336.3	336.4	336.4	336.4	336.3	336.3	336.2	335.8	334.9	334.2
130°	350.3	350.2	350.1	350.0	350.1	350.2	350.3	350.3	349.9	349.0	348.1
132.5°	363.4	363.3	363.3	363.3	363.3	363.3	363.4	363.5	363.2	362.4	361.7
135°	382.9	382.7	382.5	382.4	382.5	382.7	382.9	383.0	382.7	381.9	381.1
137.5°	400.6	400.4	400.1	399.8	400.1	400.4	400.6	400.9	400.6	399.8	399.1
140°	411.9	411.5	411.1	410.7	411.1	411.5	411.9	412.3	412.2	411.5	410.7
142.5°	422.5	422.1	421.7	421.3	421.7	422.1	422.5	422.9	422.8	422.1	421.5
145°	437.3	436.9	436.5	436.1	436.5	436.9	437.3	437.7	437.6	437.0	436.5
147.5°	450.1	449.8	449.4	449.1	449.4	449.8	450.1	450.5	450.5	450.0	449.6
150°	458.3	457.9	457.4	457.1	457.4	457.9	458.3	458.7	458.7	458.1	457.7
152.5°	465.5	464.9	464.3	463.8	464.3	464.9	465.5	466.0	466.1	465.5	465.0
155°	475.2	474.6	473.9	473.3	473.9	474.6	475.2	475.9	476.0	475.4	475.0
157.5°	483.8	483.1	482.5	481.9	482.5	483.1	483.8	484.4	484.5	483.9	483.4
160°	488.6	488.0	487.4	486.9	487.4	488.0	488.6	489.1	489.2	488.7	488.2
162.5°	493.1	492.4	491.7	491.0	491.7	492.4	493.1	493.8	493.9	493.4	492.8
165°	498.9	498.3	497.7	497.1	497.7	498.3	498.9	499.5	499.5	498.9	498.3
167.5°	503.3	502.6	501.8	501.1	501.8	502.6	503.3	504.0	504.1	503.5	503.0
170°	505.7	504.9	504.2	503.4	504.2	504.9	505.7	506.4	506.4	505.9	505.3
172.5°	507.4	506.7	505.9	505.2	505.9	506.7	507.4	508.2	508.2	507.6	507.0
175°	509.2	508.4	507.6	506.8	507.6	508.4	509.2	510.1	510.1	509.5	509.0
177.5°	509.5	508.9	508.2	507.7	508.2	508.9	509.5	510.1	510.1	509.6	509.2
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



TEST NUMBER: P331555-935

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

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°	7.1	7.4	7.7	8.1	7.9	8.3	8.5	8.9	9.6	9.8	10.2
90°	7.7	7.3	6.7	6.0	5.4	4.7	4.0	3.1	2.2	1.3	0.3
92.5°	8.8	8.5	8.2	7.9	7.6	7.2	7.1	7.1	7.2	7.3	7.4
95°	14.7	14.4	13.8	13.2	12.7	12.1	13.1	15.8	18.5	21.2	23.9
97.5°	19.5	19.2	17.9	16.5	15.2	13.9	17.0	24.6	32.3	39.9	47.4
100°	21.6	21.0	19.5	18.2	16.8	15.4	20.3	31.5	42.7	53.9	65.2
102.5°	22.4	21.5	33.2	44.9	56.5	68.1	75.1	77.5	79.8	82.2	84.6
105°	23.3	22.5	44.8	67.1	89.5	111.8	121.7	119.2	116.8	114.3	111.8
107.5°	30.5	31.4	58.2	85.0	111.8	138.5	150.9	149.0	147.0	145.0	143.0
110°	56.2	64.4	88.0	111.7	135.3	158.9	169.9	168.2	166.4	164.7	163.0



TEST NUMBER: P331555-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	132.6	162.5	168.2	174.1	179.9	185.8	188.0	186.4	184.9	183.4	181.8
115°	189.2	227.0	225.0	223.0	220.9	218.9	217.1	215.8	214.4	213.0	211.6
117.5°	242.4	251.5	250.1	248.7	247.3	245.9	244.4	242.8	241.3	239.7	238.2
120°	270.7	269.8	268.3	266.8	265.4	263.9	262.5	261.3	260.0	258.8	257.6
122.5°	287.7	287.1	285.5	283.9	282.3	280.7	279.2	277.9	276.6	275.3	274.1
125°	311.5	311.0	309.4	307.9	306.3	304.7	303.4	302.4	301.4	300.2	299.2
127.5°	333.3	332.4	331.3	330.1	329.0	327.8	326.7	325.5	324.3	323.1	321.9
130°	347.2	346.3	345.4	344.5	343.6	342.7	341.6	340.3	339.0	337.7	336.4
132.5°	360.9	360.2	359.2	358.3	357.4	356.5	355.5	354.4	353.3	352.1	351.1
135°	380.2	379.4	378.7	378.0	377.2	376.4	375.5	374.1	372.8	371.5	370.2
137.5°	398.2	397.4	396.6	395.8	394.9	394.1	393.2	392.4	391.4	390.5	389.6
140°	409.9	409.2	408.3	407.4	406.6	405.6	404.8	404.2	403.6	402.9	402.3
142.5°	420.8	420.1	419.0	418.0	417.0	416.0	415.2	414.6	414.0	413.5	412.8
145°	435.9	435.3	433.9	432.6	431.2	429.8	429.1	429.2	429.3	429.4	429.5
147.5°	449.2	448.8	447.4	446.0	444.6	443.2	442.7	443.1	443.3	443.7	443.9
150°	457.2	456.7	455.4	454.1	452.8	451.4	451.1	451.7	452.2	452.8	453.4
152.5°	464.5	464.1	462.8	461.6	460.3	459.1	458.7	459.4	460.0	460.7	461.3
155°	474.5	474.0	473.0	472.0	471.1	470.1	469.9	470.7	471.4	472.2	472.9
157.5°	482.8	482.2	481.6	480.9	480.2	479.5	479.5	480.1	480.7	481.3	481.9
160°	487.8	487.2	486.7	486.3	485.8	485.3	485.3	485.8	486.3	486.7	487.2
162.5°	492.2	491.6	491.2	490.8	490.3	490.0	490.0	490.5	490.9	491.5	492.0
165°	497.7	497.1	497.0	496.7	496.5	496.2	496.3	496.8	497.3	497.8	498.3
167.5°	502.4	501.8	501.6	501.4	501.1	500.9	501.0	501.5	502.0	502.5	503.0
170°	504.7	504.2	504.0	503.9	503.7	503.5	503.7	504.2	504.6	505.1	505.7
172.5°	506.5	505.9	505.8	505.6	505.4	505.3	505.4	505.9	506.4	507.0	507.4
175°	508.4	507.8	507.6	507.6	507.4	507.2	507.4	508.0	508.5	509.1	509.7
177.5°	508.8	508.2	508.2	508.2	508.1	508.0	508.2	508.7	509.1	509.6	510.1
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



TEST NUMBER: P331555-935

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

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	13.7	13.9	15.4	14.6	14.8	14.9	14.6	14.3	13.9	13.5
90°	1.3	2.2	3.1	4.0	4.7	5.4	6.0	6.7	7.3	7.7	8.2
92.5°	7.3	7.2	7.1	7.1	7.2	7.6	7.9	8.2	8.5	8.8	9.0
95°	21.2	18.5	15.8	13.1	12.1	12.7	13.2	13.8	14.4	14.7	15.2
97.5°	39.9	32.3	24.6	17.0	13.9	15.2	16.5	17.9	19.2	19.5	19.9
100°	53.9	42.7	31.5	20.3	15.4	16.8	18.2	19.5	21.0	21.6	22.3
102.5°	82.2	79.8	77.5	75.1	68.1	56.5	44.9	33.2	21.5	22.4	23.2
105°	114.3	116.8	119.2	121.7	111.8	89.5	67.1	44.8	22.5	23.3	24.3
107.5°	145.0	147.0	149.0	150.9	138.5	111.8	85.0	58.2	31.4	30.5	29.6
110°	164.7	166.4	168.2	169.9	158.9	135.3	111.7	88.0	64.4	56.2	48.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	183.4	184.9	186.4	188.0	185.8	179.9	174.1	168.2	162.5	132.6	102.8
115°	213.0	214.4	215.8	217.1	218.9	220.9	223.0	225.0	227.0	189.2	151.4
117.5°	239.7	241.3	242.8	244.4	245.9	247.3	248.7	250.1	251.5	242.4	233.2
120°	258.8	260.0	261.3	262.5	263.9	265.4	266.8	268.3	269.8	270.7	271.7
122.5°	275.3	276.6	277.9	279.2	280.7	282.3	283.9	285.5	287.1	287.7	288.3
125°	300.2	301.4	302.4	303.4	304.7	306.3	307.9	309.4	311.0	311.5	312.1
127.5°	323.1	324.3	325.5	326.7	327.8	329.0	330.1	331.3	332.4	333.3	334.2
130°	337.7	339.0	340.3	341.6	342.7	343.6	344.5	345.4	346.3	347.2	348.1
132.5°	352.1	353.3	354.4	355.5	356.5	357.4	358.3	359.2	360.2	360.9	361.7
135°	371.5	372.8	374.1	375.5	376.4	377.2	378.0	378.7	379.4	380.2	381.1
137.5°	390.5	391.4	392.4	393.2	394.1	394.9	395.8	396.6	397.4	398.2	399.1
140°	402.9	403.6	404.2	404.8	405.6	406.6	407.4	408.3	409.2	409.9	410.7
142.5°	413.5	414.0	414.6	415.2	416.0	417.0	418.0	419.0	420.1	420.8	421.5
145°	429.4	429.3	429.2	429.1	429.8	431.2	432.6	433.9	435.3	435.9	436.5
147.5°	443.7	443.3	443.1	442.7	443.2	444.6	446.0	447.4	448.8	449.2	449.6
150°	452.8	452.2	451.7	451.1	451.4	452.8	454.1	455.4	456.7	457.2	457.7
152.5°	460.7	460.0	459.4	458.7	459.1	460.3	461.6	462.8	464.1	464.5	465.0
155°	472.2	471.4	470.7	469.9	470.1	471.1	472.0	473.0	474.0	474.5	475.0
157.5°	481.3	480.7	480.1	479.5	479.5	480.2	480.9	481.6	482.2	482.8	483.4
160°	486.7	486.3	485.8	485.3	485.3	485.8	486.3	486.7	487.2	487.8	488.2
162.5°	491.5	490.9	490.5	490.0	490.0	490.3	490.8	491.2	491.6	492.2	492.8
165°	497.8	497.3	496.8	496.3	496.2	496.5	496.7	497.0	497.1	497.7	498.3
167.5°	502.5	502.0	501.5	501.0	500.9	501.1	501.4	501.6	501.8	502.4	503.0
170°	505.1	504.6	504.2	503.7	503.5	503.7	503.9	504.0	504.2	504.7	505.3
172.5°	507.0	506.4	505.9	505.4	505.3	505.4	505.6	505.8	505.9	506.5	507.0
175°	509.1	508.5	508.0	507.4	507.2	507.4	507.6	507.6	507.8	508.4	509.0
177.5°	509.6	509.1	508.7	508.2	508.0	508.1	508.2	508.2	508.2	508.8	509.2
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



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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°	14.0	14.1	13.8	13.8	14.3	13.9	13.9
90°	8.6	9.0	9.3	9.5	9.6	9.8	9.9
92.5°	9.2	9.4	9.6	9.6	9.7	9.8	9.9
95°	15.6	16.0	16.2	16.1	16.0	15.9	15.8
97.5°	20.2	20.5	20.8	20.8	20.9	21.0	21.1
100°	22.9	23.6	24.0	24.2	24.4	24.5	24.6
102.5°	24.1	25.0	25.5	25.7	26.0	26.2	26.4
105°	25.1	26.1	26.7	26.9	27.3	27.6	28.0
107.5°	28.7	27.7	27.5	27.8	28.2	28.4	28.8
110°	39.9	31.7	27.7	28.1	28.4	28.8	29.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	72.9	43.1	28.3	28.6	28.8	29.1	29.4
115°	113.5	75.6	53.7	47.9	41.9	36.1	30.1
117.5°	224.0	214.8	200.6	181.2	161.9	142.6	123.2
120°	272.7	273.7	268.6	257.6	246.6	235.5	224.5
122.5°	288.9	289.5	288.7	286.5	284.4	282.2	280.1
125°	312.7	313.2	313.7	313.9	314.2	314.4	314.6
127.5°	334.9	335.8	336.2	336.3	336.3	336.4	336.4
130°	349.0	349.9	350.3	350.3	350.2	350.1	350.0
132.5°	362.4	363.2	363.5	363.4	363.3	363.3	363.3
135°	381.9	382.7	383.0	382.9	382.7	382.5	382.4
137.5°	399.8	400.6	400.9	400.6	400.4	400.1	399.8
140°	411.5	412.2	412.3	411.9	411.5	411.1	410.7
142.5°	422.1	422.8	422.9	422.5	422.1	421.7	421.3
145°	437.0	437.6	437.7	437.3	436.9	436.5	436.1
147.5°	450.0	450.5	450.5	450.1	449.8	449.4	449.1
150°	458.1	458.7	458.7	458.3	457.9	457.4	457.1
152.5°	465.5	466.1	466.0	465.5	464.9	464.3	463.8
155°	475.4	476.0	475.9	475.2	474.6	473.9	473.3
157.5°	483.9	484.5	484.4	483.8	483.1	482.5	481.9
160°	488.7	489.2	489.1	488.6	488.0	487.4	486.9
162.5°	493.4	493.9	493.8	493.1	492.4	491.7	491.0
165°	498.9	499.5	499.5	498.9	498.3	497.7	497.1
167.5°	503.5	504.1	504.0	503.3	502.6	501.8	501.1
170°	505.9	506.4	506.4	505.7	504.9	504.2	503.4
172.5°	507.6	508.2	508.2	507.4	506.7	505.9	505.2
175°	509.5	510.1	510.1	509.2	508.4	507.6	506.8
177.5°	509.6	510.1	510.1	509.5	508.9	508.2	507.7
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6

(END OF REPORT)