

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: P331377-935

Luminaire Tested: **S122DIP-S865D330U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331377-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S865D330U935-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4381.9 lumens
Efficiency: N/A
Efficacy: 100.7 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

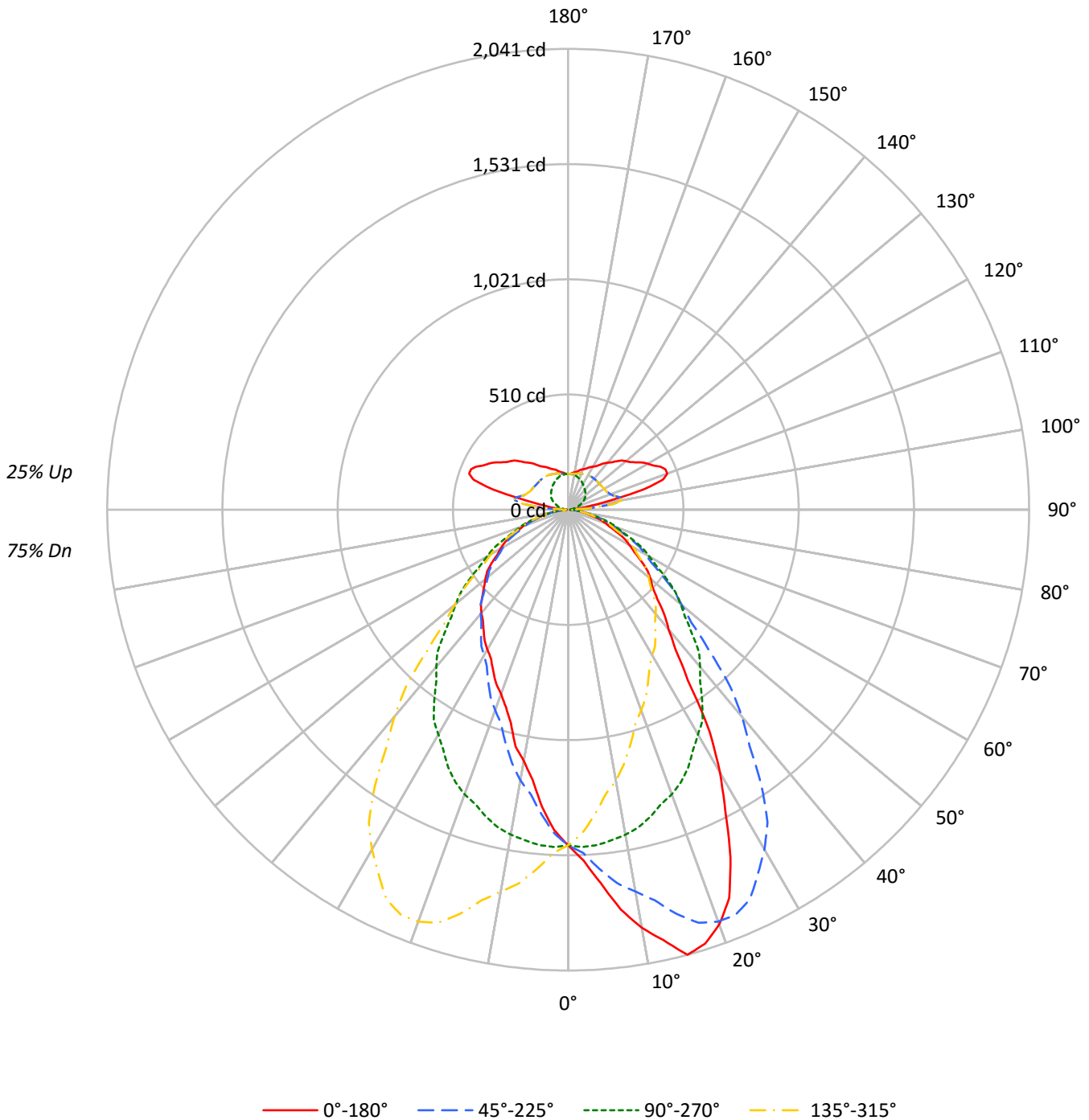
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	104	100	96	93	99	95	92	89	86	84	82	78	76	75	71	70	68	65
2	95	88	82	77	91	84	79	74	77	72	69	70	66	63	63	61	59	55
3	88	78	71	65	83	75	68	63	68	63	59	62	58	55	57	53	51	48
4	81	70	62	56	76	67	60	54	61	55	51	56	51	47	51	47	44	41
5	74	63	55	49	71	60	53	47	55	49	44	51	46	42	47	42	39	37
6	69	57	49	43	65	54	47	42	50	44	39	46	41	37	43	38	35	32
7	64	52	44	38	61	50	42	37	46	40	35	42	37	33	39	35	31	29
8	60	47	39	34	57	45	38	33	42	36	32	39	34	30	36	32	28	26
9	56	43	36	31	53	42	35	30	39	33	29	36	31	27	33	29	26	24
10	52	40	33	28	50	39	32	27	36	30	26	34	28	25	31	27	24	22

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	3.2
10°-20°	411.6	9.4
20°-30°	597.3	13.6
30°-40°	630.3	14.4
40°-50°	558.1	12.7
50°-60°	445.4	10.2
60°-70°	302.7	6.9
70°-80°	155.2	3.5
80°-90°	38.8	0.9
90°-100°	63.3	1.4
100°-110°	214.7	4.9
110°-120°	228.0	5.2
120°-130°	187.7	4.3
130°-140°	150.7	3.4
140°-150°	113.9	2.6
150°-160°	80.1	1.8
160°-170°	47.1	1.1
170°-180°	15.3	0.4
0°-30°	1150.5	26.3
0°-40°	1780.8	40.6
0°-60°	2784.3	63.5
0°-90°	3281.1	74.9
90°-120°	505.9	11.5
90°-150°	958.3	21.9
90°-180°	1101.0	25.1
0°-180°	4381.9	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	7
95°	35	11	35	11	35	45
105°	343	37	343	37	343	332
115°	451	65	451	65	451	442
125°	366	91	366	91	366	331
135°	303	107	303	107	303	236
145°	242	122	242	122	242	154
155°	204	139	204	139	204	95
165°	179	152	179	152	179	51
175°	161	158	161	158	161	16
180°	158	158	158	158	158	



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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	14.4	13.9	13.9	14.3	14.2	13.9	14.4	14.9	15.2
90°	10.1	10.1	10.1	10.1	10.1	9.7	9.1	9.7	10.1	10.3	10.1
92.5°	16.9	17.3	17.1	18.1	18.3	20.2	22.7	26.5	33.4	39.5	39.0
95°	34.7	34.4	35.3	37.7	41.7	48.4	61.1	79.7	104.4	119.2	105.6
97.5°	68.3	70.9	75.3	82.7	97.3	119.2	152.1	186.0	213.5	203.5	153.3
100°	108.9	114.4	123.2	136.3	161.5	198.4	240.0	277.8	284.1	240.3	165.5
102.5°	191.7	199.1	210.1	232.4	259.8	298.9	329.3	337.9	310.4	241.5	160.8
105°	342.9	347.1	360.2	379.0	398.0	407.9	404.0	369.6	306.3	225.4	151.8
107.5°	438.0	443.6	446.3	447.3	444.9	430.2	398.6	346.7	279.7	208.1	147.3
110°	466.7	467.0	464.3	458.5	445.4	420.4	381.5	327.0	262.9	199.8	146.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	466.1	464.5	459.3	449.7	431.5	402.9	361.3	309.0	251.2	194.5	146.5
115°	451.2	448.4	440.5	426.5	404.9	373.6	333.7	286.9	236.7	188.6	147.8
117.5°	424.3	422.0	413.7	398.9	376.9	347.5	311.3	270.2	227.6	185.7	150.1
120°	407.1	404.0	395.2	380.9	359.6	331.9	299.6	261.9	222.7	184.1	151.5
122.5°	389.0	386.5	378.7	364.5	345.4	320.5	289.9	255.4	218.5	183.0	153.2
125°	366.0	363.5	355.9	344.4	326.7	303.9	277.2	245.8	212.7	181.3	155.8
127.5°	345.8	343.8	337.3	326.4	311.0	290.0	264.8	236.3	207.2	180.3	158.3
130°	334.3	331.9	325.8	315.5	300.6	280.5	256.5	230.3	203.5	179.8	160.3
132.5°	322.4	320.2	314.6	304.3	289.6	270.8	248.7	224.5	200.6	179.5	162.3
135°	303.3	302.1	296.6	286.5	273.5	256.5	236.3	216.3	196.5	179.2	164.6
137.5°	284.6	282.8	277.9	269.3	257.4	242.5	226.6	209.8	193.6	179.1	166.7
140°	271.6	269.8	265.3	257.4	247.6	234.3	220.2	205.6	191.9	178.9	167.6
142.5°	258.7	258.4	254.3	247.1	237.9	226.7	214.6	202.2	190.3	178.9	168.3
145°	242.1	241.3	238.2	233.0	225.8	216.9	207.5	197.4	188.0	178.2	169.1
147.5°	228.3	227.6	225.6	221.4	215.4	209.0	201.6	193.7	185.7	177.2	169.4
150°	220.0	219.6	217.8	214.1	209.6	204.1	197.8	191.1	183.7	176.4	169.1
152.5°	212.9	212.8	211.5	208.4	204.7	200.0	194.6	188.4	182.0	175.2	168.7
155°	203.5	204.1	202.9	200.8	197.4	194.1	189.5	184.7	178.9	173.1	167.9
157.5°	195.5	195.5	195.0	193.2	190.9	188.2	184.4	180.4	175.9	170.9	166.5
160°	190.5	190.5	190.1	188.6	186.5	184.3	181.0	177.6	173.7	169.4	165.8
162.5°	185.5	185.8	185.5	184.5	182.4	180.7	177.9	175.0	171.8	168.2	165.1
165°	178.6	178.9	178.9	177.6	176.4	175.2	173.1	171.0	168.5	165.8	163.7
167.5°	172.1	172.5	172.5	171.9	171.3	170.2	168.8	167.1	165.4	163.7	162.3
170°	168.2	168.8	169.1	168.2	167.9	167.3	166.1	165.2	163.7	162.5	161.5
172.5°	165.1	165.4	165.7	165.3	165.0	164.6	163.7	163.0	162.0	161.0	160.6
175°	160.9	161.5	161.9	161.5	161.5	161.3	160.9	160.7	159.7	159.4	159.1
177.5°	158.4	158.9	159.2	159.2	159.2	159.2	158.9	158.9	158.4	158.2	158.4
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



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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°	15.3	14.9	14.6	15.3	13.9	13.8	11.7	10.1	9.8	9.6	8.9
90°	8.2	6.1	4.6	3.6	3.0	2.4	1.2	0.3	1.2	2.4	3.0
92.5°	30.4	20.7	13.8	10.9	8.9	7.6	5.3	3.7	5.3	7.6	8.9
95°	70.3	43.8	29.8	22.5	17.7	14.9	11.9	10.7	11.9	14.9	17.7
97.5°	94.7	57.8	40.2	31.9	26.3	22.2	18.9	17.3	18.9	22.2	26.3
100°	99.8	62.7	46.6	38.1	31.9	27.0	24.4	23.4	24.4	27.0	31.9
102.5°	100.0	67.1	52.2	43.7	37.3	32.5	29.7	29.0	29.7	32.5	37.3
105°	101.6	74.6	60.3	51.7	45.0	40.5	38.3	37.1	38.3	40.5	45.0
107.5°	105.8	82.2	68.4	59.8	53.1	48.9	46.8	45.9	46.8	48.9	53.1
110°	109.2	87.3	74.0	65.1	58.7	54.8	53.0	51.7	53.0	54.8	58.7



TEST NUMBER: P331377-935

CATALOG NUMBER: S122DIP-S865D330U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	112.9	92.2	79.3	70.2	64.1	60.4	58.3	57.1	58.3	60.4	64.1
115°	118.3	99.8	86.7	78.5	72.4	68.8	66.9	65.4	66.9	68.8	72.4
117.5°	124.2	106.8	94.7	86.2	80.3	77.1	75.3	74.0	75.3	77.1	80.3
120°	128.1	111.7	99.8	91.3	85.2	82.5	80.6	79.4	80.6	82.5	85.2
122.5°	131.5	116.2	105.1	96.3	90.3	87.3	85.5	84.6	85.5	87.3	90.3
125°	136.9	123.2	112.3	103.8	97.6	94.0	92.2	91.3	92.2	94.0	97.6
127.5°	142.0	129.7	119.0	110.2	104.4	100.4	97.8	96.6	97.8	100.4	104.4
130°	145.1	133.5	122.9	114.4	108.3	104.0	101.0	99.8	101.0	104.0	108.3
132.5°	148.3	137.0	126.8	118.3	111.9	107.5	104.2	102.7	104.2	107.5	111.9
135°	152.4	141.8	132.0	123.6	116.5	111.9	108.3	107.1	108.3	111.9	116.5
137.5°	155.6	145.7	136.0	128.1	121.2	116.3	112.7	111.2	112.7	116.3	121.2
140°	157.3	147.8	138.7	130.8	124.2	119.2	115.6	114.4	115.6	119.2	124.2
142.5°	158.8	149.6	140.7	133.3	126.8	121.9	118.6	117.5	118.6	121.9	126.8
145°	160.7	152.1	143.9	137.2	131.1	126.6	123.6	122.3	123.6	126.6	131.1
147.5°	161.7	154.2	146.5	140.5	135.4	131.2	128.3	127.4	128.3	131.2	135.4
150°	162.1	155.2	148.2	142.7	138.1	134.1	131.7	130.8	131.7	134.1	138.1
152.5°	162.4	156.1	149.8	144.9	140.5	137.1	134.7	134.2	134.7	137.1	140.5
155°	162.7	157.6	152.4	147.8	144.5	141.1	139.3	139.1	139.3	141.1	144.5
157.5°	162.7	158.6	154.2	150.4	147.7	144.8	143.4	143.0	143.4	144.8	147.7
160°	162.7	159.1	155.5	152.1	149.6	147.2	146.0	145.7	146.0	147.2	149.6
162.5°	162.5	159.4	156.2	153.6	151.4	149.5	148.2	148.4	148.2	149.5	151.4
165°	161.9	159.7	157.0	155.2	153.6	151.8	151.2	151.5	151.2	151.8	153.6
167.5°	161.4	159.6	157.6	156.5	155.4	154.2	153.7	154.0	153.7	154.2	155.4
170°	160.9	159.4	157.9	157.0	156.4	155.5	155.2	155.8	155.2	155.5	156.4
172.5°	160.2	159.2	158.2	157.5	157.1	156.2	156.4	156.7	156.4	156.2	157.1
175°	159.4	158.8	158.2	157.9	157.9	157.3	157.6	157.9	157.6	157.3	157.9
177.5°	158.9	158.4	158.2	158.2	158.2	157.7	157.9	158.4	157.9	157.7	158.2
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331377-935

CATALOG NUMBER: S122DIP-S865D330U935-4F0-1E-UDD-A4

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	8.1	8.5	8.4	8.0	7.5	7.4	7.3	6.5	6.5
90°	3.6	4.6	6.1	8.2	10.1	10.3	10.1	9.7	9.1	9.7	10.1
92.5°	10.9	13.8	20.7	30.4	39.0	39.5	33.4	26.5	22.7	20.2	18.3
95°	22.5	29.8	43.8	70.3	105.6	119.2	104.4	79.7	61.1	48.4	41.7
97.5°	31.9	40.2	57.8	94.7	153.3	203.5	213.5	186.0	152.1	119.2	97.3
100°	38.1	46.6	62.7	99.8	165.5	240.3	284.1	277.8	240.0	198.4	161.5
102.5°	43.7	52.2	67.1	100.0	160.8	241.5	310.4	337.9	329.3	298.9	259.8
105°	51.7	60.3	74.6	101.6	151.8	225.4	306.3	369.6	404.0	407.9	398.0
107.5°	59.8	68.4	82.2	105.8	147.3	208.1	279.7	346.7	398.6	430.2	444.9
110°	65.1	74.0	87.3	109.2	146.4	199.8	262.9	327.0	381.5	420.4	445.4



TEST NUMBER: P331377-935

CATALOG NUMBER: S122DIP-S865D330U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	70.2	79.3	92.2	112.9	146.5	194.5	251.2	309.0	361.3	402.9	431.5
115°	78.5	86.7	99.8	118.3	147.8	188.6	236.7	286.9	333.7	373.6	404.9
117.5°	86.2	94.7	106.8	124.2	150.1	185.7	227.6	270.2	311.3	347.5	376.9
120°	91.3	99.8	111.7	128.1	151.5	184.1	222.7	261.9	299.6	331.9	359.6
122.5°	96.3	105.1	116.2	131.5	153.2	183.0	218.5	255.4	289.9	320.5	345.4
125°	103.8	112.3	123.2	136.9	155.8	181.3	212.7	245.8	277.2	303.9	326.7
127.5°	110.2	119.0	129.7	142.0	158.3	180.3	207.2	236.3	264.8	290.0	311.0
130°	114.4	122.9	133.5	145.1	160.3	179.8	203.5	230.3	256.5	280.5	300.6
132.5°	118.3	126.8	137.0	148.3	162.3	179.5	200.6	224.5	248.7	270.8	289.6
135°	123.6	132.0	141.8	152.4	164.6	179.2	196.5	216.3	236.3	256.5	273.5
137.5°	128.1	136.0	145.7	155.6	166.7	179.1	193.6	209.8	226.6	242.5	257.4
140°	130.8	138.7	147.8	157.3	167.6	178.9	191.9	205.6	220.2	234.3	247.6
142.5°	133.3	140.7	149.6	158.8	168.3	178.9	190.3	202.2	214.6	226.7	237.9
145°	137.2	143.9	152.1	160.7	169.1	178.2	188.0	197.4	207.5	216.9	225.8
147.5°	140.5	146.5	154.2	161.7	169.4	177.2	185.7	193.7	201.6	209.0	215.4
150°	142.7	148.2	155.2	162.1	169.1	176.4	183.7	191.1	197.8	204.1	209.6
152.5°	144.9	149.8	156.1	162.4	168.7	175.2	182.0	188.4	194.6	200.0	204.7
155°	147.8	152.4	157.6	162.7	167.9	173.1	178.9	184.7	189.5	194.1	197.4
157.5°	150.4	154.2	158.6	162.7	166.5	170.9	175.9	180.4	184.4	188.2	190.9
160°	152.1	155.5	159.1	162.7	165.8	169.4	173.7	177.6	181.0	184.3	186.5
162.5°	153.6	156.2	159.4	162.5	165.1	168.2	171.8	175.0	177.9	180.7	182.4
165°	155.2	157.0	159.7	161.9	163.7	165.8	168.5	171.0	173.1	175.2	176.4
167.5°	156.5	157.6	159.6	161.4	162.3	163.7	165.4	167.1	168.8	170.2	171.3
170°	157.0	157.9	159.4	160.9	161.5	162.5	163.7	165.2	166.1	167.3	167.9
172.5°	157.5	158.2	159.2	160.2	160.6	161.0	162.0	163.0	163.7	164.6	165.0
175°	157.9	158.2	158.8	159.4	159.1	159.4	159.7	160.7	160.9	161.3	161.5
177.5°	158.2	158.2	158.4	158.9	158.4	158.2	158.4	158.9	158.9	159.2	159.2
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331377-935

CATALOG NUMBER: S122DIP-S865D330U935-4F0-1E-UDD-A4

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	6.1	6.1	5.7	6.1	6.1	6.5	6.5	6.5	7.3	7.4
90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	9.7	9.1	9.7
92.5°	18.1	17.1	17.3	16.9	17.3	17.1	18.1	18.3	20.2	22.7	26.5
95°	37.7	35.3	34.4	34.7	34.4	35.3	37.7	41.7	48.4	61.1	79.7
97.5°	82.7	75.3	70.9	68.3	70.9	75.3	82.7	97.3	119.2	152.1	186.0
100°	136.3	123.2	114.4	108.9	114.4	123.2	136.3	161.5	198.4	240.0	277.8
102.5°	232.4	210.1	199.1	191.7	199.1	210.1	232.4	259.8	298.9	329.3	337.9
105°	379.0	360.2	347.1	342.9	347.1	360.2	379.0	398.0	407.9	404.0	369.6
107.5°	447.3	446.3	443.6	438.0	443.6	446.3	447.3	444.9	430.2	398.6	346.7
110°	458.5	464.3	467.0	466.7	467.0	464.3	458.5	445.4	420.4	381.5	327.0



TEST NUMBER: P331377-935

CATALOG NUMBER: S122DIP-S865D330U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	449.7	459.3	464.5	466.1	464.5	459.3	449.7	431.5	402.9	361.3	309.0
115°	426.5	440.5	448.4	451.2	448.4	440.5	426.5	404.9	373.6	333.7	286.9
117.5°	398.9	413.7	422.0	424.3	422.0	413.7	398.9	376.9	347.5	311.3	270.2
120°	380.9	395.2	404.0	407.1	404.0	395.2	380.9	359.6	331.9	299.6	261.9
122.5°	364.5	378.7	386.5	389.0	386.5	378.7	364.5	345.4	320.5	289.9	255.4
125°	344.4	355.9	363.5	366.0	363.5	355.9	344.4	326.7	303.9	277.2	245.8
127.5°	326.4	337.3	343.8	345.8	343.8	337.3	326.4	311.0	290.0	264.8	236.3
130°	315.5	325.8	331.9	334.3	331.9	325.8	315.5	300.6	280.5	256.5	230.3
132.5°	304.3	314.6	320.2	322.4	320.2	314.6	304.3	289.6	270.8	248.7	224.5
135°	286.5	296.6	302.1	303.3	302.1	296.6	286.5	273.5	256.5	236.3	216.3
137.5°	269.3	277.9	282.8	284.6	282.8	277.9	269.3	257.4	242.5	226.6	209.8
140°	257.4	265.3	269.8	271.6	269.8	265.3	257.4	247.6	234.3	220.2	205.6
142.5°	247.1	254.3	258.4	258.7	258.4	254.3	247.1	237.9	226.7	214.6	202.2
145°	233.0	238.2	241.3	242.1	241.3	238.2	233.0	225.8	216.9	207.5	197.4
147.5°	221.4	225.6	227.6	228.3	227.6	225.6	221.4	215.4	209.0	201.6	193.7
150°	214.1	217.8	219.6	220.0	219.6	217.8	214.1	209.6	204.1	197.8	191.1
152.5°	208.4	211.5	212.8	212.9	212.8	211.5	208.4	204.7	200.0	194.6	188.4
155°	200.8	202.9	204.1	203.5	204.1	202.9	200.8	197.4	194.1	189.5	184.7
157.5°	193.2	195.0	195.5	195.5	195.5	195.0	193.2	190.9	188.2	184.4	180.4
160°	188.6	190.1	190.5	190.5	190.5	190.1	188.6	186.5	184.3	181.0	177.6
162.5°	184.5	185.5	185.8	185.5	185.8	185.5	184.5	182.4	180.7	177.9	175.0
165°	177.6	178.9	178.9	178.6	178.9	178.9	177.6	176.4	175.2	173.1	171.0
167.5°	171.9	172.5	172.5	172.1	172.5	172.5	171.9	171.3	170.2	168.8	167.1
170°	168.2	169.1	168.8	168.2	168.8	169.1	168.2	167.9	167.3	166.1	165.2
172.5°	165.3	165.7	165.4	165.1	165.4	165.7	165.3	165.0	164.6	163.7	163.0
175°	161.5	161.9	161.5	160.9	161.5	161.9	161.5	161.5	161.3	160.9	160.7
177.5°	159.2	159.2	158.9	158.4	158.9	159.2	159.2	159.2	159.2	158.9	158.9
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331377-935

CATALOG NUMBER: S122DIP-S865D330U935-4F0-1E-UDD-A4

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°	7.5	8.0	8.4	8.5	8.1	8.3	8.5	8.9	9.6	9.8	10.1
90°	10.1	10.3	10.1	8.2	6.1	4.6	3.6	3.0	2.4	1.2	0.3
92.5°	33.4	39.5	39.0	30.4	20.7	13.8	10.9	8.9	7.6	5.3	3.7
95°	104.4	119.2	105.6	70.3	43.8	29.8	22.5	17.7	14.9	11.9	10.7
97.5°	213.5	203.5	153.3	94.7	57.8	40.2	31.9	26.3	22.2	18.9	17.3
100°	284.1	240.3	165.5	99.8	62.7	46.6	38.1	31.9	27.0	24.4	23.4
102.5°	310.4	241.5	160.8	100.0	67.1	52.2	43.7	37.3	32.5	29.7	29.0
105°	306.3	225.4	151.8	101.6	74.6	60.3	51.7	45.0	40.5	38.3	37.1
107.5°	279.7	208.1	147.3	105.8	82.2	68.4	59.8	53.1	48.9	46.8	45.9
110°	262.9	199.8	146.4	109.2	87.3	74.0	65.1	58.7	54.8	53.0	51.7



TEST NUMBER: P331377-935

CATALOG NUMBER: S122DIP-S865D330U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	251.2	194.5	146.5	112.9	92.2	79.3	70.2	64.1	60.4	58.3	57.1
115°	236.7	188.6	147.8	118.3	99.8	86.7	78.5	72.4	68.8	66.9	65.4
117.5°	227.6	185.7	150.1	124.2	106.8	94.7	86.2	80.3	77.1	75.3	74.0
120°	222.7	184.1	151.5	128.1	111.7	99.8	91.3	85.2	82.5	80.6	79.4
122.5°	218.5	183.0	153.2	131.5	116.2	105.1	96.3	90.3	87.3	85.5	84.6
125°	212.7	181.3	155.8	136.9	123.2	112.3	103.8	97.6	94.0	92.2	91.3
127.5°	207.2	180.3	158.3	142.0	129.7	119.0	110.2	104.4	100.4	97.8	96.6
130°	203.5	179.8	160.3	145.1	133.5	122.9	114.4	108.3	104.0	101.0	99.8
132.5°	200.6	179.5	162.3	148.3	137.0	126.8	118.3	111.9	107.5	104.2	102.7
135°	196.5	179.2	164.6	152.4	141.8	132.0	123.6	116.5	111.9	108.3	107.1
137.5°	193.6	179.1	166.7	155.6	145.7	136.0	128.1	121.2	116.3	112.7	111.2
140°	191.9	178.9	167.6	157.3	147.8	138.7	130.8	124.2	119.2	115.6	114.4
142.5°	190.3	178.9	168.3	158.8	149.6	140.7	133.3	126.8	121.9	118.6	117.5
145°	188.0	178.2	169.1	160.7	152.1	143.9	137.2	131.1	126.6	123.6	122.3
147.5°	185.7	177.2	169.4	161.7	154.2	146.5	140.5	135.4	131.2	128.3	127.4
150°	183.7	176.4	169.1	162.1	155.2	148.2	142.7	138.1	134.1	131.7	130.8
152.5°	182.0	175.2	168.7	162.4	156.1	149.8	144.9	140.5	137.1	134.7	134.2
155°	178.9	173.1	167.9	162.7	157.6	152.4	147.8	144.5	141.1	139.3	139.1
157.5°	175.9	170.9	166.5	162.7	158.6	154.2	150.4	147.7	144.8	143.4	143.0
160°	173.7	169.4	165.8	162.7	159.1	155.5	152.1	149.6	147.2	146.0	145.7
162.5°	171.8	168.2	165.1	162.5	159.4	156.2	153.6	151.4	149.5	148.2	148.4
165°	168.5	165.8	163.7	161.9	159.7	157.0	155.2	153.6	151.8	151.2	151.5
167.5°	165.4	163.7	162.3	161.4	159.6	157.6	156.5	155.4	154.2	153.7	154.0
170°	163.7	162.5	161.5	160.9	159.4	157.9	157.0	156.4	155.5	155.2	155.8
172.5°	162.0	161.0	160.6	160.2	159.2	158.2	157.5	157.1	156.2	156.4	156.7
175°	159.7	159.4	159.1	159.4	158.8	158.2	157.9	157.9	157.3	157.6	157.9
177.5°	158.4	158.2	158.4	158.9	158.4	158.2	158.2	158.2	157.7	157.9	158.4
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



TEST NUMBER: P331377-935

CATALOG NUMBER: S122DIP-S865D330U935-4F0-1E-UDD-A4

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	15.3	14.6	14.9	15.3	15.2	14.9	14.4	13.9
90°	1.2	2.4	3.0	3.6	4.6	6.1	8.2	10.1	10.3	10.1	9.7
92.5°	5.3	7.6	8.9	10.9	13.8	20.7	30.4	39.0	39.5	33.4	26.5
95°	11.9	14.9	17.7	22.5	29.8	43.8	70.3	105.6	119.2	104.4	79.7
97.5°	18.9	22.2	26.3	31.9	40.2	57.8	94.7	153.3	203.5	213.5	186.0
100°	24.4	27.0	31.9	38.1	46.6	62.7	99.8	165.5	240.3	284.1	277.8
102.5°	29.7	32.5	37.3	43.7	52.2	67.1	100.0	160.8	241.5	310.4	337.9
105°	38.3	40.5	45.0	51.7	60.3	74.6	101.6	151.8	225.4	306.3	369.6
107.5°	46.8	48.9	53.1	59.8	68.4	82.2	105.8	147.3	208.1	279.7	346.7
110°	53.0	54.8	58.7	65.1	74.0	87.3	109.2	146.4	199.8	262.9	327.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	58.3	60.4	64.1	70.2	79.3	92.2	112.9	146.5	194.5	251.2	309.0
115°	66.9	68.8	72.4	78.5	86.7	99.8	118.3	147.8	188.6	236.7	286.9
117.5°	75.3	77.1	80.3	86.2	94.7	106.8	124.2	150.1	185.7	227.6	270.2
120°	80.6	82.5	85.2	91.3	99.8	111.7	128.1	151.5	184.1	222.7	261.9
122.5°	85.5	87.3	90.3	96.3	105.1	116.2	131.5	153.2	183.0	218.5	255.4
125°	92.2	94.0	97.6	103.8	112.3	123.2	136.9	155.8	181.3	212.7	245.8
127.5°	97.8	100.4	104.4	110.2	119.0	129.7	142.0	158.3	180.3	207.2	236.3
130°	101.0	104.0	108.3	114.4	122.9	133.5	145.1	160.3	179.8	203.5	230.3
132.5°	104.2	107.5	111.9	118.3	126.8	137.0	148.3	162.3	179.5	200.6	224.5
135°	108.3	111.9	116.5	123.6	132.0	141.8	152.4	164.6	179.2	196.5	216.3
137.5°	112.7	116.3	121.2	128.1	136.0	145.7	155.6	166.7	179.1	193.6	209.8
140°	115.6	119.2	124.2	130.8	138.7	147.8	157.3	167.6	178.9	191.9	205.6
142.5°	118.6	121.9	126.8	133.3	140.7	149.6	158.8	168.3	178.9	190.3	202.2
145°	123.6	126.6	131.1	137.2	143.9	152.1	160.7	169.1	178.2	188.0	197.4
147.5°	128.3	131.2	135.4	140.5	146.5	154.2	161.7	169.4	177.2	185.7	193.7
150°	131.7	134.1	138.1	142.7	148.2	155.2	162.1	169.1	176.4	183.7	191.1
152.5°	134.7	137.1	140.5	144.9	149.8	156.1	162.4	168.7	175.2	182.0	188.4
155°	139.3	141.1	144.5	147.8	152.4	157.6	162.7	167.9	173.1	178.9	184.7
157.5°	143.4	144.8	147.7	150.4	154.2	158.6	162.7	166.5	170.9	175.9	180.4
160°	146.0	147.2	149.6	152.1	155.5	159.1	162.7	165.8	169.4	173.7	177.6
162.5°	148.2	149.5	151.4	153.6	156.2	159.4	162.5	165.1	168.2	171.8	175.0
165°	151.2	151.8	153.6	155.2	157.0	159.7	161.9	163.7	165.8	168.5	171.0
167.5°	153.7	154.2	155.4	156.5	157.6	159.6	161.4	162.3	163.7	165.4	167.1
170°	155.2	155.5	156.4	157.0	157.9	159.4	160.9	161.5	162.5	163.7	165.2
172.5°	156.4	156.2	157.1	157.5	158.2	159.2	160.2	160.6	161.0	162.0	163.0
175°	157.6	157.3	157.9	157.9	158.2	158.8	159.4	159.1	159.4	159.7	160.7
177.5°	157.9	157.7	158.2	158.2	158.2	158.4	158.9	158.4	158.2	158.4	158.9
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2



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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°	14.2	14.3	13.9	13.9	14.4	13.9	13.9
90°	9.1	9.7	10.1	10.1	10.1	10.1	10.1
92.5°	22.7	20.2	18.3	18.1	17.1	17.3	16.9
95°	61.1	48.4	41.7	37.7	35.3	34.4	34.7
97.5°	152.1	119.2	97.3	82.7	75.3	70.9	68.3
100°	240.0	198.4	161.5	136.3	123.2	114.4	108.9
102.5°	329.3	298.9	259.8	232.4	210.1	199.1	191.7
105°	404.0	407.9	398.0	379.0	360.2	347.1	342.9
107.5°	398.6	430.2	444.9	447.3	446.3	443.6	438.0
110°	381.5	420.4	445.4	458.5	464.3	467.0	466.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	361.3	402.9	431.5	449.7	459.3	464.5	466.1
115°	333.7	373.6	404.9	426.5	440.5	448.4	451.2
117.5°	311.3	347.5	376.9	398.9	413.7	422.0	424.3
120°	299.6	331.9	359.6	380.9	395.2	404.0	407.1
122.5°	289.9	320.5	345.4	364.5	378.7	386.5	389.0
125°	277.2	303.9	326.7	344.4	355.9	363.5	366.0
127.5°	264.8	290.0	311.0	326.4	337.3	343.8	345.8
130°	256.5	280.5	300.6	315.5	325.8	331.9	334.3
132.5°	248.7	270.8	289.6	304.3	314.6	320.2	322.4
135°	236.3	256.5	273.5	286.5	296.6	302.1	303.3
137.5°	226.6	242.5	257.4	269.3	277.9	282.8	284.6
140°	220.2	234.3	247.6	257.4	265.3	269.8	271.6
142.5°	214.6	226.7	237.9	247.1	254.3	258.4	258.7
145°	207.5	216.9	225.8	233.0	238.2	241.3	242.1
147.5°	201.6	209.0	215.4	221.4	225.6	227.6	228.3
150°	197.8	204.1	209.6	214.1	217.8	219.6	220.0
152.5°	194.6	200.0	204.7	208.4	211.5	212.8	212.9
155°	189.5	194.1	197.4	200.8	202.9	204.1	203.5
157.5°	184.4	188.2	190.9	193.2	195.0	195.5	195.5
160°	181.0	184.3	186.5	188.6	190.1	190.5	190.5
162.5°	177.9	180.7	182.4	184.5	185.5	185.8	185.5
165°	173.1	175.2	176.4	177.6	178.9	178.9	178.6
167.5°	168.8	170.2	171.3	171.9	172.5	172.5	172.1
170°	166.1	167.3	167.9	168.2	169.1	168.8	168.2
172.5°	163.7	164.6	165.0	165.3	165.7	165.4	165.1
175°	160.9	161.3	161.5	161.5	161.9	161.5	160.9
177.5°	158.9	159.2	159.2	159.2	159.2	158.9	158.4
180°	158.2	158.2	158.2	158.2	158.2	158.2	158.2

(END OF REPORT)