

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: P331805-840

Luminaire Tested: **S122RDIW-S675D435U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331805-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S675D435U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 435 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4313.5 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

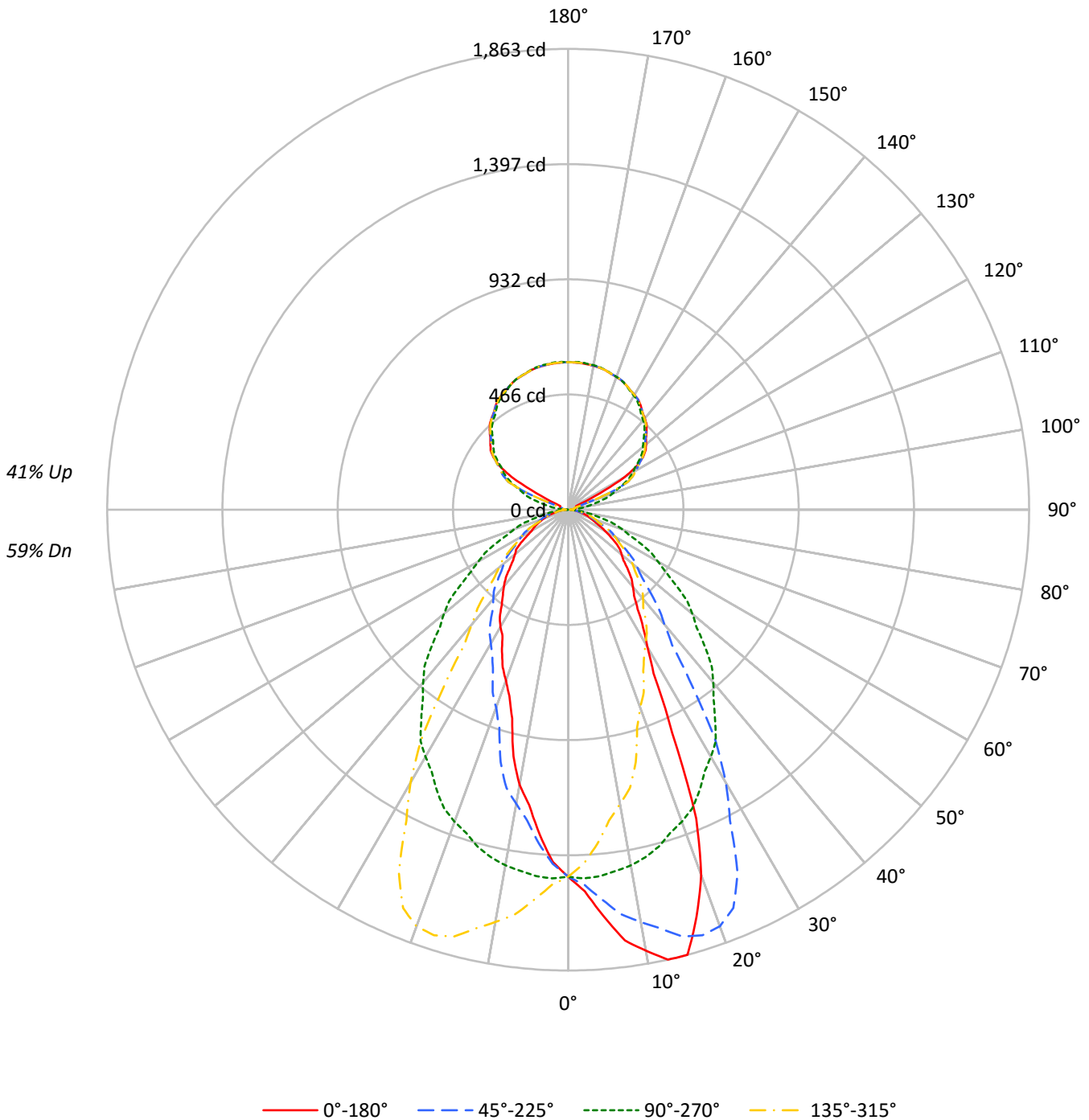
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	59				59
1	101	97	93	90	94	91	87	85	79	77	75	68	67	65	59	58	57				52	
2	93	86	80	75	86	80	75	71	70	67	63	61	59	56	53	51	49				45	
3	85	76	69	64	79	72	66	61	63	58	55	55	52	49	48	45	43				39	
4	78	68	61	55	73	64	58	52	57	52	48	50	46	43	43	40	38				35	
5	73	61	54	48	68	58	51	46	51	46	42	45	41	38	40	36	34				31	
6	67	56	48	42	63	53	46	41	47	41	37	42	37	34	36	33	30				28	
7	63	51	43	38	58	48	41	36	43	37	33	38	34	30	34	30	28				25	
8	58	46	39	34	55	44	37	33	40	34	30	35	31	28	31	28	25				23	
9	55	43	35	31	51	41	34	29	37	31	27	33	28	25	29	26	23				21	
10	51	39	32	28	48	38	31	27	34	29	25	30	26	23	27	24	21				19	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	23954	23954	23954	23954
5°	26752	24104	21371	24104
10°	29681	23935	18525	23935
15°	31141	23584	14596	23584
20°	26996	23063	12631	23063
25°	17706	22352	11277	22352
30°	11917	21490	10206	21490
35°	9652	20402	9207	20402
40°	8585	19220	8517	19220
45°	7768	17831	7606	17831
50°	7068	16458	7043	16458
55°	6646	14933	6559	14933
60°	5561	13533	5493	13533
65°	4688	12287	5318	12287
70°	4334	10976	5013	10976
75°	4049	9551	4629	9551
80°	3738	7857	4119	7857
85°	3446	6206	3631	6206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	3.3
10°-20°	391.9	9.1
20°-30°	505.0	11.7
30°-40°	479.9	11.1
40°-50°	411.1	9.5
50°-60°	313.0	7.3
60°-70°	197.9	4.6
70°-80°	98.8	2.3
80°-90°	27.2	0.6
90°-100°	19.9	0.5
100°-110°	73.0	1.7
110°-120°	195.0	4.5
120°-130°	322.0	7.5
130°-140°	342.4	7.9
140°-150°	318.3	7.4
150°-160°	255.9	5.9
160°-170°	164.9	3.8
170°-180°	56.8	1.3
0°-30°	1037.5	24.1
0°-40°	1517.4	35.2
0°-60°	2241.5	52.0
0°-90°	2565.4	59.5
90°-120°	287.9	6.7
90°-150°	1270.6	29.5
90°-180°	1748.0	40.5
0°-180°	4313.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1484	1484	1484	1484	1484	
5°	1651	1487	1319	1487	1651	163
15°	1863	1411	873	1411	1863	503
25°	994	1255	633	1255	994	472
35°	490	1035	467	1035	490	313
45°	340	781	333	781	340	263
55°	236	530	233	530	236	207
65°	123	322	139	322	123	125
75°	65	153	74	153	65	69
85°	19	34	20	34	19	20
90°	12	0	12	0	12	6
95°	19	28	19	28	19	17
105°	33	131	33	131	33	34
115°	35	248	35	248	35	89
125°	369	351	369	351	369	319
135°	448	434	448	434	448	346
145°	512	504	512	504	512	320
155°	555	555	555	555	555	256
165°	583	584	583	584	583	165
175°	594	598	594	598	594	57
180°	596	596	596	596	596	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1543.8	1545.0	1546.3	1543.4	1543.4	1540.9	1535.5	1531.5	1519.8	1518.2	1518.2
5°	1650.6	1649.5	1651.6	1645.0	1635.7	1633.6	1623.8	1610.9	1597.5	1582.6	1579.4
7.5°	1756.8	1755.2	1751.1	1750.0	1742.8	1727.3	1711.5	1694.8	1672.4	1650.7	1639.8
10°	1810.4	1827.5	1817.1	1799.1	1802.7	1778.5	1765.5	1743.4	1724.8	1692.3	1685.2
12.5°	1863.2	1869.9	1866.6	1856.3	1851.7	1834.9	1817.6	1798.3	1764.0	1734.8	1709.5
15°	1863.0	1872.8	1875.3	1872.3	1874.8	1873.8	1864.5	1848.6	1818.7	1786.7	1758.9
17.5°	1725.5	1732.2	1749.2	1760.6	1775.0	1805.5	1820.6	1826.4	1822.0	1803.8	1784.2
20°	1571.2	1559.8	1607.3	1631.5	1652.1	1703.6	1748.0	1765.0	1792.3	1791.8	1786.7
22.5°	1352.6	1355.3	1400.3	1429.1	1489.2	1540.8	1591.3	1655.4	1708.2	1743.1	1763.6
25°	993.9	1013.5	1058.3	1097.5	1164.5	1260.4	1347.5	1448.6	1543.9	1619.1	1690.8
27.5°	746.4	747.9	783.5	819.6	859.4	938.0	1047.6	1168.3	1304.2	1416.4	1545.5
30°	639.2	636.1	651.1	673.3	707.2	768.1	850.5	969.2	1104.7	1273.7	1424.3
32.5°	563.3	563.5	574.8	591.2	619.5	660.5	716.9	813.2	941.4	1107.6	1284.0
35°	489.7	489.2	497.5	509.3	521.2	547.4	586.1	636.6	724.8	879.9	1060.4
37.5°	437.0	439.2	443.2	450.6	463.7	478.4	501.6	535.5	598.2	690.0	841.7
40°	407.3	408.3	413.9	420.1	427.9	439.2	458.3	485.5	531.5	604.7	715.5
42.5°	380.0	381.0	385.1	390.8	396.9	408.3	424.0	447.7	484.8	542.0	633.4
45°	340.2	340.2	343.9	346.4	353.1	363.5	376.3	395.9	421.7	463.9	524.7
47.5°	302.9	303.0	305.4	309.8	314.1	322.0	334.8	350.7	369.5	402.2	454.1
50°	281.4	282.0	283.5	287.1	289.7	296.9	306.7	320.6	340.2	365.5	408.8
52.5°	264.2	263.8	265.8	267.3	269.1	274.3	281.6	293.9	311.3	333.4	369.2
55°	236.1	234.0	237.1	239.7	241.3	243.3	247.4	255.2	270.1	288.7	315.5
57.5°	201.1	200.3	202.4	204.8	209.6	215.2	218.6	223.6	231.4	244.7	271.2
60°	172.2	172.2	176.8	178.3	184.0	191.3	198.4	202.6	210.4	219.0	238.6
62.5°	146.6	147.0	149.2	150.8	153.9	162.8	172.9	182.0	189.2	197.6	210.7
65°	122.7	123.7	123.7	124.7	126.8	128.9	133.0	140.2	153.1	164.9	174.7
67.5°	104.1	104.4	104.7	105.7	106.3	108.6	110.2	113.4	116.4	127.6	139.8
70°	91.8	93.3	92.8	93.8	94.3	95.3	97.5	99.0	103.6	106.2	113.4
72.5°	80.2	81.3	81.2	81.9	83.2	83.4	85.0	86.6	89.6	91.8	95.6
75°	64.9	64.4	64.9	65.9	66.4	67.1	67.1	69.1	70.6	72.7	75.2
77.5°	50.1	50.6	50.5	50.6	50.7	51.6	51.5	52.5	54.0	55.0	56.2
80°	40.2	40.7	40.2	40.7	41.2	41.7	41.2	41.7	43.3	44.3	44.3
82.5°	31.1	31.2	31.5	31.6	31.7	31.8	32.6	32.7	33.8	33.6	34.0
85°	18.6	18.1	18.1	18.1	18.6	19.1	18.6	18.6	19.1	19.1	19.1
87.5°	8.9	9.3	9.3	9.2	9.2	9.1	9.0	9.4	8.8	9.2	8.6
90°	11.6	11.5	11.3	11.1	10.9	10.5	10.1	9.6	9.1	8.6	7.9
92.5°	11.6	11.5	11.4	11.3	11.2	11.0	10.8	10.5	10.3	10.0	9.6
95°	18.6	18.7	18.8	18.9	19.0	18.8	18.3	17.8	17.3	16.9	16.2
97.5°	24.7	24.6	24.5	24.4	24.3	24.0	23.7	23.3	22.9	22.5	21.0
100°	28.9	28.7	28.6	28.4	28.2	27.7	26.9	26.2	25.3	24.6	22.9
102.5°	31.0	30.7	30.5	30.2	29.9	29.3	28.3	27.3	26.3	25.2	39.0
105°	32.8	32.4	32.0	31.6	31.3	30.6	29.5	28.5	27.4	26.4	52.5
107.5°	33.7	33.3	33.0	32.6	32.2	32.5	33.6	34.7	35.7	36.9	68.3
110°	34.1	33.7	33.3	32.9	32.5	37.2	46.8	56.4	65.9	75.5	103.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	34.4	34.1	33.8	33.5	33.2	50.6	85.5	120.6	155.5	190.6	197.3
115°	35.3	42.3	49.2	56.1	63.0	88.7	133.1	177.5	221.9	266.3	263.9
117.5°	144.5	167.2	189.9	212.6	235.3	252.0	262.8	273.5	284.3	295.0	293.4
120°	263.3	276.2	289.2	302.2	315.1	321.0	319.8	318.7	317.5	316.4	314.7
122.5°	328.5	331.0	333.6	336.1	338.6	339.5	338.8	338.1	337.5	336.8	334.9
125°	369.0	368.8	368.5	368.2	367.9	367.4	366.8	366.1	365.4	364.8	362.9
127.5°	394.6	394.6	394.5	394.5	394.4	393.8	392.8	391.9	390.9	389.9	388.6
130°	410.5	410.6	410.7	410.8	410.9	410.4	409.3	408.3	407.2	406.2	405.2
132.5°	426.1	426.2	426.2	426.3	426.4	426.0	425.1	424.2	423.3	422.4	421.3
135°	448.5	448.7	448.9	449.1	449.2	448.9	447.9	447.0	446.0	445.0	444.1
137.5°	468.9	469.3	469.6	469.9	470.2	469.9	469.0	468.1	467.1	466.2	465.1
140°	481.7	482.2	482.6	483.1	483.6	483.4	482.6	481.7	480.8	480.0	478.9
142.5°	494.1	494.6	495.1	495.5	496.0	495.9	495.1	494.3	493.5	492.7	491.5
145°	511.5	512.0	512.4	512.9	513.4	513.3	512.6	512.0	511.3	510.6	509.0
147.5°	526.7	527.1	527.6	528.0	528.4	528.4	527.9	527.4	526.8	526.3	524.7
150°	536.1	536.5	537.0	537.6	538.1	538.0	537.3	536.8	536.2	535.6	534.1
152.5°	544.0	544.6	545.3	545.9	546.5	546.6	546.0	545.4	544.8	544.3	542.8
155°	555.1	555.8	556.6	557.3	558.2	558.3	557.6	557.1	556.5	555.9	554.8
157.5°	565.2	565.9	566.6	567.4	568.2	568.3	567.5	566.9	566.2	565.6	564.8
160°	571.1	571.7	572.4	573.1	573.7	573.8	573.2	572.6	572.1	571.5	570.9
162.5°	575.9	576.7	577.5	578.3	579.2	579.3	578.7	577.9	577.3	576.6	576.1
165°	583.1	583.8	584.5	585.1	585.8	585.8	585.1	584.5	583.8	583.1	582.9
167.5°	587.7	588.5	589.5	590.3	591.2	591.3	590.6	590.0	589.3	588.5	588.3
170°	590.5	591.4	592.2	593.1	593.9	594.0	593.4	592.7	592.0	591.4	591.2
172.5°	592.6	593.4	594.3	595.1	596.0	596.1	595.4	594.7	594.1	593.4	593.2
175°	594.4	595.3	596.3	597.2	598.2	598.3	597.6	597.0	596.3	595.6	595.4
177.5°	595.5	596.1	596.8	597.5	598.2	598.3	597.7	597.2	596.7	596.1	596.1
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1519.0	1515.7	1512.9	1505.4	1501.8	1493.5	1492.3	1491.9	1481.1	1470.8	1467.9
5°	1571.2	1563.0	1550.5	1536.1	1521.2	1505.7	1495.4	1487.2	1466.5	1446.9	1435.6
7.5°	1623.8	1606.1	1584.7	1557.4	1534.6	1509.0	1490.1	1473.1	1443.8	1415.7	1396.8
10°	1662.9	1634.1	1605.8	1568.1	1538.7	1509.8	1483.1	1459.9	1426.8	1389.8	1363.4
12.5°	1687.3	1655.6	1616.5	1579.6	1541.7	1504.9	1469.1	1439.3	1400.5	1362.1	1330.9
15°	1720.2	1686.2	1638.7	1586.2	1537.2	1489.2	1448.0	1410.9	1360.4	1314.5	1276.4
17.5°	1747.1	1700.3	1649.3	1588.5	1531.9	1470.9	1417.7	1370.4	1314.1	1258.8	1213.9
20°	1755.8	1709.4	1650.6	1589.7	1522.8	1451.1	1393.9	1342.3	1282.0	1221.7	1170.1
22.5°	1750.4	1714.3	1648.9	1576.2	1507.5	1432.5	1367.9	1308.1	1241.2	1179.6	1119.8
25°	1714.0	1701.6	1639.8	1560.3	1482.1	1394.9	1320.2	1254.7	1178.4	1112.5	1047.4
27.5°	1629.1	1655.9	1617.5	1533.0	1445.8	1352.4	1268.4	1193.9	1114.7	1040.5	975.7
30°	1547.5	1608.8	1592.4	1514.0	1416.5	1324.8	1230.5	1152.7	1068.1	991.8	927.9
32.5°	1435.7	1537.1	1553.2	1487.6	1386.8	1286.1	1187.2	1109.7	1021.5	941.1	878.8
35°	1257.8	1409.4	1478.9	1437.1	1336.2	1227.4	1125.3	1035.1	946.4	867.1	805.2
37.5°	1045.5	1251.9	1367.9	1370.9	1278.1	1165.0	1053.9	964.3	873.5	795.6	728.7
40°	907.8	1131.5	1282.5	1316.1	1237.7	1115.5	1003.1	911.9	823.2	746.9	670.1
42.5°	784.1	1006.9	1192.7	1250.9	1188.6	1067.2	954.5	859.1	773.0	700.7	622.3
45°	634.1	828.9	1033.6	1137.7	1103.2	990.8	871.7	780.9	700.0	637.6	562.4
47.5°	534.8	672.2	870.2	1011.1	1010.5	907.9	790.7	703.9	628.8	570.4	509.4
50°	478.4	597.9	765.5	925.3	938.7	852.6	741.2	655.2	585.1	523.7	474.7
52.5°	427.7	526.2	676.8	830.0	868.2	793.7	685.6	606.1	538.1	481.7	439.7
55°	361.3	437.7	552.1	695.4	753.2	700.5	604.7	530.5	475.2	427.9	391.7
57.5°	305.7	362.9	454.7	570.2	637.3	604.3	525.1	464.8	417.7	374.8	346.3
60°	270.6	317.5	395.4	491.8	566.0	542.8	475.2	419.1	378.9	341.7	315.0
62.5°	237.6	277.9	344.7	422.9	491.0	481.4	426.2	379.1	343.9	310.0	287.3
65°	191.3	220.7	272.7	334.1	388.7	393.3	353.7	321.6	290.2	263.4	243.3
67.5°	152.3	171.5	208.1	259.8	300.7	315.4	291.1	266.7	241.8	221.1	203.6
70°	128.4	143.8	170.7	212.4	250.0	265.5	251.6	232.5	210.9	193.8	178.8
72.5°	104.0	119.1	138.9	169.5	201.8	218.4	213.6	200.0	182.4	168.2	154.1
75°	78.4	83.0	96.4	117.0	142.3	156.7	160.4	153.1	139.2	128.4	120.1
77.5°	58.0	60.7	67.2	78.0	94.4	107.3	112.6	111.8	102.2	95.8	88.2
80°	46.4	48.0	51.0	55.6	68.1	80.9	84.5	84.5	77.9	75.2	67.6
82.5°	35.2	36.4	38.3	40.8	46.6	57.9	61.9	62.7	58.5	55.0	49.0
85°	20.1	19.6	20.6	22.1	23.2	26.3	32.5	33.5	32.5	28.4	26.8
87.5°	8.4	8.7	8.6	8.0	8.2	8.4	10.2	12.0	10.6	9.6	9.0
90°	7.1	6.4	5.6	4.6	3.6	2.5	1.5	0.4	1.5	2.5	3.6
92.5°	9.3	8.9	8.5	8.4	8.4	8.5	8.6	8.7	8.6	8.5	8.4
95°	15.5	14.8	14.1	15.3	18.6	21.7	24.8	28.1	24.8	21.7	18.6
97.5°	19.4	17.9	16.4	20.0	28.9	37.9	46.8	55.6	46.8	37.9	28.9
100°	21.3	19.7	18.1	23.8	37.0	50.1	63.2	76.4	63.2	50.1	37.0
102.5°	52.6	66.2	79.9	88.1	90.9	93.6	96.4	99.2	96.4	93.6	90.9
105°	78.7	104.9	131.1	142.7	139.9	136.9	134.1	131.2	134.1	136.9	139.9
107.5°	99.7	131.1	162.5	177.0	174.7	172.4	170.1	167.7	170.1	172.4	174.7
110°	131.0	158.6	186.4	199.2	197.2	195.2	193.2	191.2	193.2	195.2	197.2



TEST NUMBER: P331805-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	204.2	211.1	217.9	220.5	218.6	216.9	215.1	213.3	215.1	216.9	218.6
115°	261.6	259.1	256.7	254.7	253.1	251.5	249.8	248.2	249.8	251.5	253.1
117.5°	291.6	290.0	288.4	286.6	284.8	283.0	281.1	279.3	281.1	283.0	284.8
120°	313.0	311.2	309.5	307.9	306.5	305.0	303.6	302.2	303.6	305.0	306.5
122.5°	333.0	331.1	329.2	327.5	326.0	324.5	323.0	321.4	323.0	324.5	326.0
125°	361.1	359.3	357.4	355.9	354.7	353.5	352.1	350.9	352.1	353.5	354.7
127.5°	387.2	385.9	384.5	383.1	381.7	380.3	379.0	377.6	379.0	380.3	381.7
130°	404.0	403.0	401.9	400.6	399.1	397.6	396.1	394.6	396.1	397.6	399.1
132.5°	420.3	419.2	418.2	417.0	415.7	414.3	413.0	411.8	413.0	414.3	415.7
135°	443.3	442.4	441.5	440.4	438.8	437.3	435.8	434.2	435.8	437.3	438.8
137.5°	464.2	463.2	462.2	461.2	460.2	459.1	458.0	457.0	458.0	459.1	460.2
140°	477.9	476.9	475.7	474.8	474.0	473.3	472.5	471.8	472.5	473.3	474.0
142.5°	490.3	489.1	488.0	487.0	486.3	485.5	484.9	484.2	484.9	485.5	486.3
145°	507.4	505.7	504.1	503.3	503.4	503.5	503.6	503.7	503.6	503.5	503.4
147.5°	523.1	521.5	519.9	519.3	519.7	520.0	520.4	520.7	520.4	520.0	519.7
150°	532.6	531.1	529.5	529.1	529.8	530.4	531.1	531.8	531.1	530.4	529.8
152.5°	541.4	539.9	538.5	538.1	538.9	539.6	540.4	541.1	540.4	539.6	538.9
155°	553.6	552.5	551.4	551.2	552.1	552.9	553.8	554.6	553.8	552.9	552.1
157.5°	564.0	563.2	562.4	562.4	563.1	563.8	564.5	565.2	564.5	563.8	563.1
160°	570.4	569.8	569.2	569.2	569.8	570.4	570.9	571.5	570.9	570.4	569.8
162.5°	575.6	575.1	574.7	574.7	575.3	575.8	576.4	577.0	576.4	575.8	575.3
165°	582.6	582.3	582.0	582.1	582.7	583.3	583.9	584.4	583.9	583.3	582.7
167.5°	588.0	587.7	587.5	587.6	588.2	588.9	589.4	590.0	589.4	588.9	588.2
170°	591.0	590.8	590.6	590.8	591.4	591.9	592.5	593.1	592.5	591.9	591.4
172.5°	593.0	592.8	592.7	592.8	593.4	594.0	594.6	595.1	594.6	594.0	593.4
175°	595.3	595.1	594.9	595.1	595.8	596.4	597.1	597.8	597.1	596.4	595.8
177.5°	596.0	595.9	595.8	596.1	596.6	597.1	597.7	598.2	597.7	597.1	596.6
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



TEST NUMBER: P331805-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1462.6	1459.7	1454.3	1446.0	1441.1	1432.4	1426.6	1430.0	1430.8	1430.0	1429.2
5°	1423.3	1412.4	1397.5	1383.0	1369.7	1355.2	1347.0	1343.3	1336.2	1332.0	1330.0
7.5°	1375.7	1357.1	1336.0	1310.8	1289.4	1267.1	1255.7	1249.9	1235.2	1227.2	1220.1
10°	1340.3	1310.9	1289.8	1256.8	1236.7	1207.3	1187.2	1187.7	1167.6	1156.2	1148.0
12.5°	1301.1	1268.8	1233.7	1204.0	1176.0	1152.5	1128.2	1118.4	1097.0	1086.1	1063.9
15°	1236.2	1198.5	1161.4	1121.2	1092.9	1056.2	1021.2	978.4	943.8	913.9	905.7
17.5°	1165.2	1118.6	1081.4	1034.2	985.6	924.0	883.4	858.6	837.8	822.0	810.2
20°	1116.5	1069.1	1029.5	958.3	892.8	851.1	821.2	802.1	780.4	763.5	754.2
22.5°	1065.4	1015.9	961.8	882.4	831.4	797.9	771.2	749.3	734.7	721.3	713.0
25°	992.8	938.7	849.5	794.9	753.7	718.6	700.0	686.6	671.2	653.1	644.9
27.5°	916.1	830.0	766.0	725.4	686.0	663.2	646.5	626.5	612.7	604.6	596.0
30°	858.8	772.7	722.8	678.4	650.6	625.3	605.7	594.4	581.0	567.0	561.4
32.5°	794.9	726.1	678.2	641.3	613.0	591.5	576.0	557.6	548.0	539.4	527.6
35°	715.5	663.5	619.7	589.8	562.9	545.4	527.4	516.5	499.0	491.8	487.2
37.5°	648.2	603.1	570.5	538.9	517.7	498.3	487.3	470.0	462.4	452.4	442.6
40°	610.4	566.0	534.5	508.8	485.0	470.6	456.8	442.8	431.4	426.9	415.0
42.5°	571.6	535.5	504.0	475.7	459.9	444.6	427.1	416.9	405.1	397.6	390.2
45°	518.1	486.1	459.3	436.1	418.6	402.6	391.2	374.3	367.6	352.5	346.4
47.5°	471.1	441.3	415.8	393.7	376.6	366.2	349.6	336.3	325.6	316.4	308.5
50°	437.7	412.9	388.2	368.6	353.1	338.2	321.1	314.5	297.9	293.3	288.7
52.5°	407.2	383.6	360.9	341.7	326.3	311.7	296.8	288.0	276.9	272.3	268.9
55°	364.5	341.7	320.1	303.1	287.6	272.7	263.4	252.6	247.4	243.8	239.7
57.5°	321.5	301.1	284.6	267.3	251.8	239.9	229.1	222.7	217.3	212.6	207.6
60°	294.4	274.8	259.8	243.8	227.8	218.0	209.8	202.1	195.9	188.6	186.6
62.5°	265.5	248.3	234.7	219.0	205.2	196.2	188.3	181.1	173.6	163.1	160.2
65°	225.8	212.4	197.9	185.1	172.7	163.9	152.6	144.3	141.3	140.2	139.7
67.5°	190.0	177.2	164.8	151.7	140.4	132.3	126.5	125.2	123.1	122.5	121.1
70°	166.0	154.1	141.8	129.4	118.6	117.0	114.9	112.9	110.3	109.3	108.3
72.5°	144.5	132.3	119.9	110.0	105.3	103.4	101.4	99.3	97.6	96.5	95.8
75°	110.8	99.5	91.3	87.7	85.0	83.5	80.4	78.9	77.9	76.2	75.7
77.5°	79.8	73.4	69.6	67.4	64.6	63.0	61.2	59.7	58.6	58.3	57.5
80°	60.8	57.8	55.1	52.1	51.0	49.0	48.5	47.0	47.5	45.8	45.8
82.5°	47.3	43.3	41.1	39.7	38.7	37.1	36.5	35.7	35.9	34.7	34.7
85°	24.2	23.2	22.1	21.1	21.1	19.6	20.1	19.6	19.6	18.6	18.1
87.5°	8.8	8.6	7.9	8.0	8.2	7.9	8.0	7.7	7.8	7.9	7.6
90°	4.6	5.6	6.4	7.1	7.9	8.6	9.1	9.6	10.1	10.5	10.9
92.5°	8.4	8.5	8.9	9.3	9.6	10.0	10.3	10.5	10.8	11.0	11.2
95°	15.3	14.1	14.8	15.5	16.2	16.9	17.3	17.8	18.3	18.8	19.0
97.5°	20.0	16.4	17.9	19.4	21.0	22.5	22.9	23.3	23.7	24.0	24.3
100°	23.8	18.1	19.7	21.3	22.9	24.6	25.3	26.2	26.9	27.7	28.2
102.5°	88.1	79.9	66.2	52.6	39.0	25.2	26.3	27.3	28.3	29.3	29.9
105°	142.7	131.1	104.9	78.7	52.5	26.4	27.4	28.5	29.5	30.6	31.3
107.5°	177.0	162.5	131.1	99.7	68.3	36.9	35.7	34.7	33.6	32.5	32.2
110°	199.2	186.4	158.6	131.0	103.2	75.5	65.9	56.4	46.8	37.2	32.5



TEST NUMBER: P331805-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	220.5	217.9	211.1	204.2	197.3	190.6	155.5	120.6	85.5	50.6	33.2
115°	254.7	256.7	259.1	261.6	263.9	266.3	221.9	177.5	133.1	88.7	63.0
117.5°	286.6	288.4	290.0	291.6	293.4	295.0	284.3	273.5	262.8	252.0	235.3
120°	307.9	309.5	311.2	313.0	314.7	316.4	317.5	318.7	319.8	321.0	315.1
122.5°	327.5	329.2	331.1	333.0	334.9	336.8	337.5	338.1	338.8	339.5	338.6
125°	355.9	357.4	359.3	361.1	362.9	364.8	365.4	366.1	366.8	367.4	367.9
127.5°	383.1	384.5	385.9	387.2	388.6	389.9	390.9	391.9	392.8	393.8	394.4
130°	400.6	401.9	403.0	404.0	405.2	406.2	407.2	408.3	409.3	410.4	410.9
132.5°	417.0	418.2	419.2	420.3	421.3	422.4	423.3	424.2	425.1	426.0	426.4
135°	440.4	441.5	442.4	443.3	444.1	445.0	446.0	447.0	447.9	448.9	449.2
137.5°	461.2	462.2	463.2	464.2	465.1	466.2	467.1	468.1	469.0	469.9	470.2
140°	474.8	475.7	476.9	477.9	478.9	480.0	480.8	481.7	482.6	483.4	483.6
142.5°	487.0	488.0	489.1	490.3	491.5	492.7	493.5	494.3	495.1	495.9	496.0
145°	503.3	504.1	505.7	507.4	509.0	510.6	511.3	512.0	512.6	513.3	513.4
147.5°	519.3	519.9	521.5	523.1	524.7	526.3	526.8	527.4	527.9	528.4	528.4
150°	529.1	529.5	531.1	532.6	534.1	535.6	536.2	536.8	537.3	538.0	538.1
152.5°	538.1	538.5	539.9	541.4	542.8	544.3	544.8	545.4	546.0	546.6	546.5
155°	551.2	551.4	552.5	553.6	554.8	555.9	556.5	557.1	557.6	558.3	558.2
157.5°	562.4	562.4	563.2	564.0	564.8	565.6	566.2	566.9	567.5	568.3	568.2
160°	569.2	569.2	569.8	570.4	570.9	571.5	572.1	572.6	573.2	573.8	573.7
162.5°	574.7	574.7	575.1	575.6	576.1	576.6	577.3	577.9	578.7	579.3	579.2
165°	582.1	582.0	582.3	582.6	582.9	583.1	583.8	584.5	585.1	585.8	585.8
167.5°	587.6	587.5	587.7	588.0	588.3	588.5	589.3	590.0	590.6	591.3	591.2
170°	590.8	590.6	590.8	591.0	591.2	591.4	592.0	592.7	593.4	594.0	593.9
172.5°	592.8	592.7	592.8	593.0	593.2	593.4	594.1	594.7	595.4	596.1	596.0
175°	595.1	594.9	595.1	595.3	595.4	595.6	596.3	597.0	597.6	598.3	598.2
177.5°	596.1	595.8	595.9	596.0	596.1	596.1	596.7	597.2	597.7	598.3	598.2
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



TEST NUMBER: P331805-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1424.6	1425.4	1424.2	1425.0	1424.2	1425.4	1424.6	1429.2	1430.0	1430.8	1430.0
5°	1327.4	1321.2	1320.2	1318.6	1320.2	1321.2	1327.4	1330.0	1332.0	1336.2	1343.3
7.5°	1211.3	1210.3	1207.8	1204.2	1207.8	1210.3	1211.3	1220.1	1227.2	1235.2	1249.9
10°	1136.6	1134.1	1133.6	1129.9	1133.6	1134.1	1136.6	1148.0	1156.2	1167.6	1187.7
12.5°	1049.2	1032.6	1030.9	1021.9	1030.9	1032.6	1049.2	1063.9	1086.1	1097.0	1118.4
15°	893.3	890.3	879.9	873.2	879.9	890.3	893.3	905.7	913.9	943.8	978.4
17.5°	804.3	794.2	790.9	789.5	790.9	794.2	804.3	810.2	822.0	837.8	858.6
20°	746.9	737.7	736.1	735.1	736.1	737.7	746.9	754.2	763.5	780.4	802.1
22.5°	707.3	697.6	693.7	690.5	693.7	697.6	707.3	713.0	721.3	734.7	749.3
25°	639.7	636.1	634.1	633.0	634.1	636.1	639.7	644.9	653.1	671.2	686.6
27.5°	586.8	578.9	577.3	574.7	577.3	578.9	586.8	596.0	604.6	612.7	626.5
30°	556.7	554.1	550.6	547.4	550.6	554.1	556.7	561.4	567.0	581.0	594.4
32.5°	521.3	519.1	515.9	514.4	515.9	519.1	521.3	527.6	539.4	548.0	557.6
35°	482.0	474.7	471.7	467.1	471.7	474.7	482.0	487.2	491.8	499.0	516.5
37.5°	440.4	436.7	432.3	433.8	432.3	436.7	440.4	442.6	452.4	462.4	470.0
40°	408.3	405.7	404.7	404.1	404.7	405.7	408.3	415.0	426.9	431.4	442.8
42.5°	382.7	375.6	372.9	372.8	372.9	375.6	382.7	390.2	397.6	405.1	416.9
45°	343.9	337.1	332.4	333.1	332.4	337.1	343.9	346.4	352.5	367.6	374.3
47.5°	304.1	303.9	300.9	301.8	300.9	303.9	304.1	308.5	316.4	325.6	336.3
50°	285.1	282.0	279.9	280.4	279.9	282.0	285.1	288.7	293.3	297.9	314.5
52.5°	266.9	264.3	262.6	264.8	262.6	264.3	266.9	268.9	272.3	276.9	288.0
55°	237.1	234.0	233.5	233.0	233.5	234.0	237.1	239.7	243.8	247.4	252.6
57.5°	203.8	201.8	198.6	197.3	198.6	201.8	203.8	207.6	212.6	217.3	222.7
60°	179.9	175.8	170.7	170.1	170.7	175.8	179.9	186.6	188.6	195.9	202.1
62.5°	158.0	157.2	156.2	156.1	156.2	157.2	158.0	160.2	163.1	173.6	181.1
65°	138.7	138.1	138.7	139.2	138.7	138.1	138.7	139.7	140.2	141.3	144.3
67.5°	120.9	119.9	119.0	119.4	119.0	119.9	120.9	121.1	122.5	123.1	125.2
70°	107.2	106.7	106.2	106.2	106.2	106.7	107.2	108.3	109.3	110.3	112.9
72.5°	94.0	93.9	93.4	93.0	93.4	93.9	94.0	95.8	96.5	97.6	99.3
75°	75.2	74.2	74.2	74.2	74.2	74.2	75.2	75.7	76.2	77.9	78.9
77.5°	57.4	56.9	56.2	55.8	56.2	56.9	57.4	57.5	58.3	58.6	59.7
80°	45.3	44.8	44.3	44.3	44.3	44.8	45.3	45.8	45.8	47.5	47.0
82.5°	34.6	34.1	34.0	33.6	34.0	34.1	34.6	34.7	34.7	35.9	35.7
85°	18.6	19.1	18.6	19.6	18.6	19.1	18.6	18.1	18.6	19.6	19.6
87.5°	7.6	7.2	7.7	7.3	7.7	7.2	7.6	7.6	7.9	7.8	7.7
90°	11.1	11.3	11.5	11.6	11.5	11.3	11.1	10.9	10.5	10.1	9.6
92.5°	11.3	11.4	11.5	11.6	11.5	11.4	11.3	11.2	11.0	10.8	10.5
95°	18.9	18.8	18.7	18.6	18.7	18.8	18.9	19.0	18.8	18.3	17.8
97.5°	24.4	24.5	24.6	24.7	24.6	24.5	24.4	24.3	24.0	23.7	23.3
100°	28.4	28.6	28.7	28.9	28.7	28.6	28.4	28.2	27.7	26.9	26.2
102.5°	30.2	30.5	30.7	31.0	30.7	30.5	30.2	29.9	29.3	28.3	27.3
105°	31.6	32.0	32.4	32.8	32.4	32.0	31.6	31.3	30.6	29.5	28.5
107.5°	32.6	33.0	33.3	33.7	33.3	33.0	32.6	32.2	32.5	33.6	34.7
110°	32.9	33.3	33.7	34.1	33.7	33.3	32.9	32.5	37.2	46.8	56.4



TEST NUMBER: P331805-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	33.5	33.8	34.1	34.4	34.1	33.8	33.5	33.2	50.6	85.5	120.6
115°	56.1	49.2	42.3	35.3	42.3	49.2	56.1	63.0	88.7	133.1	177.5
117.5°	212.6	189.9	167.2	144.5	167.2	189.9	212.6	235.3	252.0	262.8	273.5
120°	302.2	289.2	276.2	263.3	276.2	289.2	302.2	315.1	321.0	319.8	318.7
122.5°	336.1	333.6	331.0	328.5	331.0	333.6	336.1	338.6	339.5	338.8	338.1
125°	368.2	368.5	368.8	369.0	368.8	368.5	368.2	367.9	367.4	366.8	366.1
127.5°	394.5	394.5	394.6	394.6	394.6	394.5	394.5	394.4	393.8	392.8	391.9
130°	410.8	410.7	410.6	410.5	410.6	410.7	410.8	410.9	410.4	409.3	408.3
132.5°	426.3	426.2	426.2	426.1	426.2	426.2	426.3	426.4	426.0	425.1	424.2
135°	449.1	448.9	448.7	448.5	448.7	448.9	449.1	449.2	448.9	447.9	447.0
137.5°	469.9	469.6	469.3	468.9	469.3	469.6	469.9	470.2	469.9	469.0	468.1
140°	483.1	482.6	482.2	481.7	482.2	482.6	483.1	483.6	483.4	482.6	481.7
142.5°	495.5	495.1	494.6	494.1	494.6	495.1	495.5	496.0	495.9	495.1	494.3
145°	512.9	512.4	512.0	511.5	512.0	512.4	512.9	513.4	513.3	512.6	512.0
147.5°	528.0	527.6	527.1	526.7	527.1	527.6	528.0	528.4	528.4	527.9	527.4
150°	537.6	537.0	536.5	536.1	536.5	537.0	537.6	538.1	538.0	537.3	536.8
152.5°	545.9	545.3	544.6	544.0	544.6	545.3	545.9	546.5	546.6	546.0	545.4
155°	557.3	556.6	555.8	555.1	555.8	556.6	557.3	558.2	558.3	557.6	557.1
157.5°	567.4	566.6	565.9	565.2	565.9	566.6	567.4	568.2	568.3	567.5	566.9
160°	573.1	572.4	571.7	571.1	571.7	572.4	573.1	573.7	573.8	573.2	572.6
162.5°	578.3	577.5	576.7	575.9	576.7	577.5	578.3	579.2	579.3	578.7	577.9
165°	585.1	584.5	583.8	583.1	583.8	584.5	585.1	585.8	585.8	585.1	584.5
167.5°	590.3	589.5	588.5	587.7	588.5	589.5	590.3	591.2	591.3	590.6	590.0
170°	593.1	592.2	591.4	590.5	591.4	592.2	593.1	593.9	594.0	593.4	592.7
172.5°	595.1	594.3	593.4	592.6	593.4	594.3	595.1	596.0	596.1	595.4	594.7
175°	597.2	596.3	595.3	594.4	595.3	596.3	597.2	598.2	598.3	597.6	597.0
177.5°	597.5	596.8	596.1	595.5	596.1	596.8	597.5	598.2	598.3	597.7	597.2
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



TEST NUMBER: P331805-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1426.6	1432.4	1441.1	1446.0	1454.3	1459.7	1462.6	1467.9	1470.8	1481.1	1491.9
5°	1347.0	1355.2	1369.7	1383.0	1397.5	1412.4	1423.3	1435.6	1446.9	1466.5	1487.2
7.5°	1255.7	1267.1	1289.4	1310.8	1336.0	1357.1	1375.7	1396.8	1415.7	1443.8	1473.1
10°	1187.2	1207.3	1236.7	1256.8	1289.8	1310.9	1340.3	1363.4	1389.8	1426.8	1459.9
12.5°	1128.2	1152.5	1176.0	1204.0	1233.7	1268.8	1301.1	1330.9	1362.1	1400.5	1439.3
15°	1021.2	1056.2	1092.9	1121.2	1161.4	1198.5	1236.2	1276.4	1314.5	1360.4	1410.9
17.5°	883.4	924.0	985.6	1034.2	1081.4	1118.6	1165.2	1213.9	1258.8	1314.1	1370.4
20°	821.2	851.1	892.8	958.3	1029.5	1069.1	1116.5	1170.1	1221.7	1282.0	1342.3
22.5°	771.2	797.9	831.4	882.4	961.8	1015.9	1065.4	1119.8	1179.6	1241.2	1308.1
25°	700.0	718.6	753.7	794.9	849.5	938.7	992.8	1047.4	1112.5	1178.4	1254.7
27.5°	646.5	663.2	686.0	725.4	766.0	830.0	916.1	975.7	1040.5	1114.7	1193.9
30°	605.7	625.3	650.6	678.4	722.8	772.7	858.8	927.9	991.8	1068.1	1152.7
32.5°	576.0	591.5	613.0	641.3	678.2	726.1	794.9	878.8	941.1	1021.5	1109.7
35°	527.4	545.4	562.9	589.8	619.7	663.5	715.5	805.2	867.1	946.4	1035.1
37.5°	487.3	498.3	517.7	538.9	570.5	603.1	648.2	728.7	795.6	873.5	964.3
40°	456.8	470.6	485.0	508.8	534.5	566.0	610.4	670.1	746.9	823.2	911.9
42.5°	427.1	444.6	459.9	475.7	504.0	535.5	571.6	622.3	700.7	773.0	859.1
45°	391.2	402.6	418.6	436.1	459.3	486.1	518.1	562.4	637.6	700.0	780.9
47.5°	349.6	366.2	376.6	393.7	415.8	441.3	471.1	509.4	570.4	628.8	703.9
50°	321.1	338.2	353.1	368.6	388.2	412.9	437.7	474.7	523.7	585.1	655.2
52.5°	296.8	311.7	326.3	341.7	360.9	383.6	407.2	439.7	481.7	538.1	606.1
55°	263.4	272.7	287.6	303.1	320.1	341.7	364.5	391.7	427.9	475.2	530.5
57.5°	229.1	239.9	251.8	267.3	284.6	301.1	321.5	346.3	374.8	417.7	464.8
60°	209.8	218.0	227.8	243.8	259.8	274.8	294.4	315.0	341.7	378.9	419.1
62.5°	188.3	196.2	205.2	219.0	234.7	248.3	265.5	287.3	310.0	343.9	379.1
65°	152.6	163.9	172.7	185.1	197.9	212.4	225.8	243.3	263.4	290.2	321.6
67.5°	126.5	132.3	140.4	151.7	164.8	177.2	190.0	203.6	221.1	241.8	266.7
70°	114.9	117.0	118.6	129.4	141.8	154.1	166.0	178.8	193.8	210.9	232.5
72.5°	101.4	103.4	105.3	110.0	119.9	132.3	144.5	154.1	168.2	182.4	200.0
75°	80.4	83.5	85.0	87.7	91.3	99.5	110.8	120.1	128.4	139.2	153.1
77.5°	61.2	63.0	64.6	67.4	69.6	73.4	79.8	88.2	95.8	102.2	111.8
80°	48.5	49.0	51.0	52.1	55.1	57.8	60.8	67.6	75.2	77.9	84.5
82.5°	36.5	37.1	38.7	39.7	41.1	43.3	47.3	49.0	55.0	58.5	62.7
85°	20.1	19.6	21.1	21.1	22.1	23.2	24.2	26.8	28.4	32.5	33.5
87.5°	8.0	7.9	8.2	8.0	7.9	8.6	8.8	9.0	9.6	10.6	12.0
90°	9.1	8.6	7.9	7.1	6.4	5.6	4.6	3.6	2.5	1.5	0.4
92.5°	10.3	10.0	9.6	9.3	8.9	8.5	8.4	8.4	8.5	8.6	8.7
95°	17.3	16.9	16.2	15.5	14.8	14.1	15.3	18.6	21.7	24.8	28.1
97.5°	22.9	22.5	21.0	19.4	17.9	16.4	20.0	28.9	37.9	46.8	55.6
100°	25.3	24.6	22.9	21.3	19.7	18.1	23.8	37.0	50.1	63.2	76.4
102.5°	26.3	25.2	39.0	52.6	66.2	79.9	88.1	90.9	93.6	96.4	99.2
105°	27.4	26.4	52.5	78.7	104.9	131.1	142.7	139.9	136.9	134.1	131.2
107.5°	35.7	36.9	68.3	99.7	131.1	162.5	177.0	174.7	172.4	170.1	167.7
110°	65.9	75.5	103.2	131.0	158.6	186.4	199.2	197.2	195.2	193.2	191.2



TEST NUMBER: P331805-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	155.5	190.6	197.3	204.2	211.1	217.9	220.5	218.6	216.9	215.1	213.3
115°	221.9	266.3	263.9	261.6	259.1	256.7	254.7	253.1	251.5	249.8	248.2
117.5°	284.3	295.0	293.4	291.6	290.0	288.4	286.6	284.8	283.0	281.1	279.3
120°	317.5	316.4	314.7	313.0	311.2	309.5	307.9	306.5	305.0	303.6	302.2
122.5°	337.5	336.8	334.9	333.0	331.1	329.2	327.5	326.0	324.5	323.0	321.4
125°	365.4	364.8	362.9	361.1	359.3	357.4	355.9	354.7	353.5	352.1	350.9
127.5°	390.9	389.9	388.6	387.2	385.9	384.5	383.1	381.7	380.3	379.0	377.6
130°	407.2	406.2	405.2	404.0	403.0	401.9	400.6	399.1	397.6	396.1	394.6
132.5°	423.3	422.4	421.3	420.3	419.2	418.2	417.0	415.7	414.3	413.0	411.8
135°	446.0	445.0	444.1	443.3	442.4	441.5	440.4	438.8	437.3	435.8	434.2
137.5°	467.1	466.2	465.1	464.2	463.2	462.2	461.2	460.2	459.1	458.0	457.0
140°	480.8	480.0	478.9	477.9	476.9	475.7	474.8	474.0	473.3	472.5	471.8
142.5°	493.5	492.7	491.5	490.3	489.1	488.0	487.0	486.3	485.5	484.9	484.2
145°	511.3	510.6	509.0	507.4	505.7	504.1	503.3	503.4	503.5	503.6	503.7
147.5°	526.8	526.3	524.7	523.1	521.5	519.9	519.3	519.7	520.0	520.4	520.7
150°	536.2	535.6	534.1	532.6	531.1	529.5	529.1	529.8	530.4	531.1	531.8
152.5°	544.8	544.3	542.8	541.4	539.9	538.5	538.1	538.9	539.6	540.4	541.1
155°	556.5	555.9	554.8	553.6	552.5	551.4	551.2	552.1	552.9	553.8	554.6
157.5°	566.2	565.6	564.8	564.0	563.2	562.4	562.4	563.1	563.8	564.5	565.2
160°	572.1	571.5	570.9	570.4	569.8	569.2	569.2	569.8	570.4	570.9	571.5
162.5°	577.3	576.6	576.1	575.6	575.1	574.7	574.7	575.3	575.8	576.4	577.0
165°	583.8	583.1	582.9	582.6	582.3	582.0	582.1	582.7	583.3	583.9	584.4
167.5°	589.3	588.5	588.3	588.0	587.7	587.5	587.6	588.2	588.9	589.4	590.0
170°	592.0	591.4	591.2	591.0	590.8	590.6	590.8	591.4	591.9	592.5	593.1
172.5°	594.1	593.4	593.2	593.0	592.8	592.7	592.8	593.4	594.0	594.6	595.1
175°	596.3	595.6	595.4	595.3	595.1	594.9	595.1	595.8	596.4	597.1	597.8
177.5°	596.7	596.1	596.1	596.0	595.9	595.8	596.1	596.6	597.1	597.7	598.2
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



TEST NUMBER: P331805-840

CATALOG NUMBER: S122RDIW-S675D435U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1492.3	1493.5	1501.8	1505.4	1512.9	1515.7	1519.0	1518.2	1518.2	1519.8	1531.5
5°	1495.4	1505.7	1521.2	1536.1	1550.5	1563.0	1571.2	1579.4	1582.6	1597.5	1610.9
7.5°	1490.1	1509.0	1534.6	1557.4	1584.7	1606.1	1623.8	1639.8	1650.7	1672.4	1694.8
10°	1483.1	1509.8	1538.7	1568.1	1605.8	1634.1	1662.9	1685.2	1692.3	1724.8	1743.4
12.5°	1469.1	1504.9	1541.7	1579.6	1616.5	1655.6	1687.3	1709.5	1734.8	1764.0	1798.3
15°	1448.0	1489.2	1537.2	1586.2	1638.7	1686.2	1720.2	1758.9	1786.7	1818.7	1848.6
17.5°	1417.7	1470.9	1531.9	1588.5	1649.3	1700.3	1747.1	1784.2	1803.8	1822.0	1826.4
20°	1393.9	1451.1	1522.8	1589.7	1650.6	1709.4	1755.8	1786.7	1791.8	1792.3	1765.0
22.5°	1367.9	1432.5	1507.5	1576.2	1648.9	1714.3	1750.4	1763.6	1743.1	1708.2	1655.4
25°	1320.2	1394.9	1482.1	1560.3	1639.8	1701.6	1714.0	1690.8	1619.1	1543.9	1448.6
27.5°	1268.4	1352.4	1445.8	1533.0	1617.5	1655.9	1629.1	1545.5	1416.4	1304.2	1168.3
30°	1230.5	1324.8	1416.5	1514.0	1592.4	1608.8	1547.5	1424.3	1273.7	1104.7	969.2
32.5°	1187.2	1286.1	1386.8	1487.6	1553.2	1537.1	1435.7	1284.0	1107.6	941.4	813.2
35°	1125.3	1227.4	1336.2	1437.1	1478.9	1409.4	1257.8	1060.4	879.9	724.8	636.6
37.5°	1053.9	1165.0	1278.1	1370.9	1367.9	1251.9	1045.5	841.7	690.0	598.2	535.5
40°	1003.1	1115.5	1237.7	1316.1	1282.5	1131.5	907.8	715.5	604.7	531.5	485.5
42.5°	954.5	1067.2	1188.6	1250.9	1192.7	1006.9	784.1	633.4	542.0	484.8	447.7
45°	871.7	990.8	1103.2	1137.7	1033.6	828.9	634.1	524.7	463.9	421.7	395.9
47.5°	790.7	907.9	1010.5	1011.1	870.2	672.2	534.8	454.1	402.2	369.5	350.7
50°	741.2	852.6	938.7	925.3	765.5	597.9	478.4	408.8	365.5	340.2	320.6
52.5°	685.6	793.7	868.2	830.0	676.8	526.2	427.7	369.2	333.4	311.3	293.9
55°	604.7	700.5	753.2	695.4	552.1	437.7	361.3	315.5	288.7	270.1	255.2
57.5°	525.1	604.3	637.3	570.2	454.7	362.9	305.7	271.2	244.7	231.4	223.6
60°	475.2	542.8	566.0	491.8	395.4	317.5	270.6	238.6	219.0	210.4	202.6
62.5°	426.2	481.4	491.0	422.9	344.7	277.9	237.6	210.7	197.6	189.2	182.0
65°	353.7	393.3	388.7	334.1	272.7	220.7	191.3	174.7	164.9	153.1	140.2
67.5°	291.1	315.4	300.7	259.8	208.1	171.5	152.3	139.8	127.6	116.4	113.4
70°	251.6	265.5	250.0	212.4	170.7	143.8	128.4	113.4	106.2	103.6	99.0
72.5°	213.6	218.4	201.8	169.5	138.9	119.1	104.0	95.6	91.8	89.6	86.6
75°	160.4	156.7	142.3	117.0	96.4	83.0	78.4	75.2	72.7	70.6	69.1
77.5°	112.6	107.3	94.4	78.0	67.2	60.7	58.0	56.2	55.0	54.0	52.5
80°	84.5	80.9	68.1	55.6	51.0	48.0	46.4	44.3	44.3	43.3	41.7
82.5°	61.9	57.9	46.6	40.8	38.3	36.4	35.2	34.0	33.6	33.8	32.7
85°	32.5	26.3	23.2	22.1	20.6	19.6	20.1	19.1	19.1	19.1	18.6
87.5°	10.2	8.4	8.2	8.0	8.6	8.7	8.4	8.6	9.2	8.8	9.4
90°	1.5	2.5	3.6	4.6	5.6	6.4	7.1	7.9	8.6	9.1	9.6
92.5°	8.6	8.5	8.4	8.4	8.5	8.9	9.3	9.6	10.0	10.3	10.5
95°	24.8	21.7	18.6	15.3	14.1	14.8	15.5	16.2	16.9	17.3	17.8
97.5°	46.8	37.9	28.9	20.0	16.4	17.9	19.4	21.0	22.5	22.9	23.3
100°	63.2	50.1	37.0	23.8	18.1	19.7	21.3	22.9	24.6	25.3	26.2
102.5°	96.4	93.6	90.9	88.1	79.9	66.2	52.6	39.0	25.2	26.3	27.3
105°	134.1	136.9	139.9	142.7	131.1	104.9	78.7	52.5	26.4	27.4	28.5
107.5°	170.1	172.4	174.7	177.0	162.5	131.1	99.7	68.3	36.9	35.7	34.7
110°	193.2	195.2	197.2	199.2	186.4	158.6	131.0	103.2	75.5	65.9	56.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	215.1	216.9	218.6	220.5	217.9	211.1	204.2	197.3	190.6	155.5	120.6
115°	249.8	251.5	253.1	254.7	256.7	259.1	261.6	263.9	266.3	221.9	177.5
117.5°	281.1	283.0	284.8	286.6	288.4	290.0	291.6	293.4	295.0	284.3	273.5
120°	303.6	305.0	306.5	307.9	309.5	311.2	313.0	314.7	316.4	317.5	318.7
122.5°	323.0	324.5	326.0	327.5	329.2	331.1	333.0	334.9	336.8	337.5	338.1
125°	352.1	353.5	354.7	355.9	357.4	359.3	361.1	362.9	364.8	365.4	366.1
127.5°	379.0	380.3	381.7	383.1	384.5	385.9	387.2	388.6	389.9	390.9	391.9
130°	396.1	397.6	399.1	400.6	401.9	403.0	404.0	405.2	406.2	407.2	408.3
132.5°	413.0	414.3	415.7	417.0	418.2	419.2	420.3	421.3	422.4	423.3	424.2
135°	435.8	437.3	438.8	440.4	441.5	442.4	443.3	444.1	445.0	446.0	447.0
137.5°	458.0	459.1	460.2	461.2	462.2	463.2	464.2	465.1	466.2	467.1	468.1
140°	472.5	473.3	474.0	474.8	475.7	476.9	477.9	478.9	480.0	480.8	481.7
142.5°	484.9	485.5	486.3	487.0	488.0	489.1	490.3	491.5	492.7	493.5	494.3
145°	503.6	503.5	503.4	503.3	504.1	505.7	507.4	509.0	510.6	511.3	512.0
147.5°	520.4	520.0	519.7	519.3	519.9	521.5	523.1	524.7	526.3	526.8	527.4
150°	531.1	530.4	529.8	529.1	529.5	531.1	532.6	534.1	535.6	536.2	536.8
152.5°	540.4	539.6	538.9	538.1	538.5	539.9	541.4	542.8	544.3	544.8	545.4
155°	553.8	552.9	552.1	551.2	551.4	552.5	553.6	554.8	555.9	556.5	557.1
157.5°	564.5	563.8	563.1	562.4	562.4	563.2	564.0	564.8	565.6	566.2	566.9
160°	570.9	570.4	569.8	569.2	569.2	569.8	570.4	570.9	571.5	572.1	572.6
162.5°	576.4	575.8	575.3	574.7	574.7	575.1	575.6	576.1	576.6	577.3	577.9
165°	583.9	583.3	582.7	582.1	582.0	582.3	582.6	582.9	583.1	583.8	584.5
167.5°	589.4	588.9	588.2	587.6	587.5	587.7	588.0	588.3	588.5	589.3	590.0
170°	592.5	591.9	591.4	590.8	590.6	590.8	591.0	591.2	591.4	592.0	592.7
172.5°	594.6	594.0	593.4	592.8	592.7	592.8	593.0	593.2	593.4	594.1	594.7
175°	597.1	596.4	595.8	595.1	594.9	595.1	595.3	595.4	595.6	596.3	597.0
177.5°	597.7	597.1	596.6	596.1	595.8	595.9	596.0	596.1	596.1	596.7	597.2
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5	596.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1535.5	1540.9	1543.4	1543.4	1546.3	1545.0	1543.8
5°	1623.8	1633.6	1635.7	1645.0	1651.6	1649.5	1650.6
7.5°	1711.5	1727.3	1742.8	1750.0	1751.1	1755.2	1756.8
10°	1765.5	1778.5	1802.7	1799.1	1817.1	1827.5	1810.4
12.5°	1817.6	1834.9	1851.7	1856.3	1866.6	1869.9	1863.2
15°	1864.5	1873.8	1874.8	1872.3	1875.3	1872.8	1863.0
17.5°	1820.6	1805.5	1775.0	1760.6	1749.2	1732.2	1725.5
20°	1748.0	1703.6	1652.1	1631.5	1607.3	1559.8	1571.2
22.5°	1591.3	1540.8	1489.2	1429.1	1400.3	1355.3	1352.6
25°	1347.5	1260.4	1164.5	1097.5	1058.3	1013.5	993.9
27.5°	1047.6	938.0	859.4	819.6	783.5	747.9	746.4
30°	850.5	768.1	707.2	673.3	651.1	636.1	639.2
32.5°	716.9	660.5	619.5	591.2	574.8	563.5	563.3
35°	586.1	547.4	521.2	509.3	497.5	489.2	489.7
37.5°	501.6	478.4	463.7	450.6	443.2	439.2	437.0
40°	458.3	439.2	427.9	420.1	413.9	408.3	407.3
42.5°	424.0	408.3	396.9	390.8	385.1	381.0	380.0
45°	376.3	363.5	353.1	346.4	343.9	340.2	340.2
47.5°	334.8	322.0	314.1	309.8	305.4	303.0	302.9
50°	306.7	296.9	289.7	287.1	283.5	282.0	281.4
52.5°	281.6	274.3	269.1	267.3	265.8	263.8	264.2
55°	247.4	243.3	241.3	239.7	237.1	234.0	236.1
57.5°	218.6	215.2	209.6	204.8	202.4	200.3	201.1
60°	198.4	191.3	184.0	178.3	176.8	172.2	172.2
62.5°	172.9	162.8	153.9	150.8	149.2	147.0	146.6
65°	133.0	128.9	126.8	124.7	123.7	123.7	122.7
67.5°	110.2	108.6	106.3	105.7	104.7	104.4	104.1
70°	97.5	95.3	94.3	93.8	92.8	93.3	91.8
72.5°	85.0	83.4	83.2	81.9	81.2	81.3	80.2
75°	67.1	67.1	66.4	65.9	64.9	64.4	64.9
77.5°	51.5	51.6	50.7	50.6	50.5	50.6	50.1
80°	41.2	41.7	41.2	40.7	40.2	40.7	40.2
82.5°	32.6	31.8	31.7	31.6	31.5	31.2	31.1
85°	18.6	19.1	18.6	18.1	18.1	18.1	18.6
87.5°	9.0	9.1	9.2	9.2	9.3	9.3	8.9
90°	10.1	10.5	10.9	11.1	11.3	11.5	11.6
92.5°	10.8	11.0	11.2	11.3	11.4	11.5	11.6
95°	18.3	18.8	19.0	18.9	18.8	18.7	18.6
97.5°	23.7	24.0	24.3	24.4	24.5	24.6	24.7
100°	26.9	27.7	28.2	28.4	28.6	28.7	28.9
102.5°	28.3	29.3	29.9	30.2	30.5	30.7	31.0
105°	29.5	30.6	31.3	31.6	32.0	32.4	32.8
107.5°	33.6	32.5	32.2	32.6	33.0	33.3	33.7
110°	46.8	37.2	32.5	32.9	33.3	33.7	34.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	85.5	50.6	33.2	33.5	33.8	34.1	34.4
115°	133.1	88.7	63.0	56.1	49.2	42.3	35.3
117.5°	262.8	252.0	235.3	212.6	189.9	167.2	144.5
120°	319.8	321.0	315.1	302.2	289.2	276.2	263.3
122.5°	338.8	339.5	338.6	336.1	333.6	331.0	328.5
125°	366.8	367.4	367.9	368.2	368.5	368.8	369.0
127.5°	392.8	393.8	394.4	394.5	394.5	394.6	394.6
130°	409.3	410.4	410.9	410.8	410.7	410.6	410.5
132.5°	425.1	426.0	426.4	426.3	426.2	426.2	426.1
135°	447.9	448.9	449.2	449.1	448.9	448.7	448.5
137.5°	469.0	469.9	470.2	469.9	469.6	469.3	468.9
140°	482.6	483.4	483.6	483.1	482.6	482.2	481.7
142.5°	495.1	495.9	496.0	495.5	495.1	494.6	494.1
145°	512.6	513.3	513.4	512.9	512.4	512.0	511.5
147.5°	527.9	528.4	528.4	528.0	527.6	527.1	526.7
150°	537.3	538.0	538.1	537.6	537.0	536.5	536.1
152.5°	546.0	546.6	546.5	545.9	545.3	544.6	544.0
155°	557.6	558.3	558.2	557.3	556.6	555.8	555.1
157.5°	567.5	568.3	568.2	567.4	566.6	565.9	565.2
160°	573.2	573.8	573.7	573.1	572.4	571.7	571.1
162.5°	578.7	579.3	579.2	578.3	577.5	576.7	575.9
165°	585.1	585.8	585.8	585.1	584.5	583.8	583.1
167.5°	590.6	591.3	591.2	590.3	589.5	588.5	587.7
170°	593.4	594.0	593.9	593.1	592.2	591.4	590.5
172.5°	595.4	596.1	596.0	595.1	594.3	593.4	592.6
175°	597.6	598.3	598.2	597.2	596.3	595.3	594.4
177.5°	597.7	598.3	598.2	597.5	596.8	596.1	595.5
180°	596.5	596.5	596.5	596.5	596.5	596.5	596.5

(END OF REPORT)