

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: P331806-830

Luminaire Tested: **S122RDIW-S675D435U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331806-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S675D435U830-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3810.0 lumens
Efficiency: N/A
Efficacy: 101.1 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: Semi-Direct

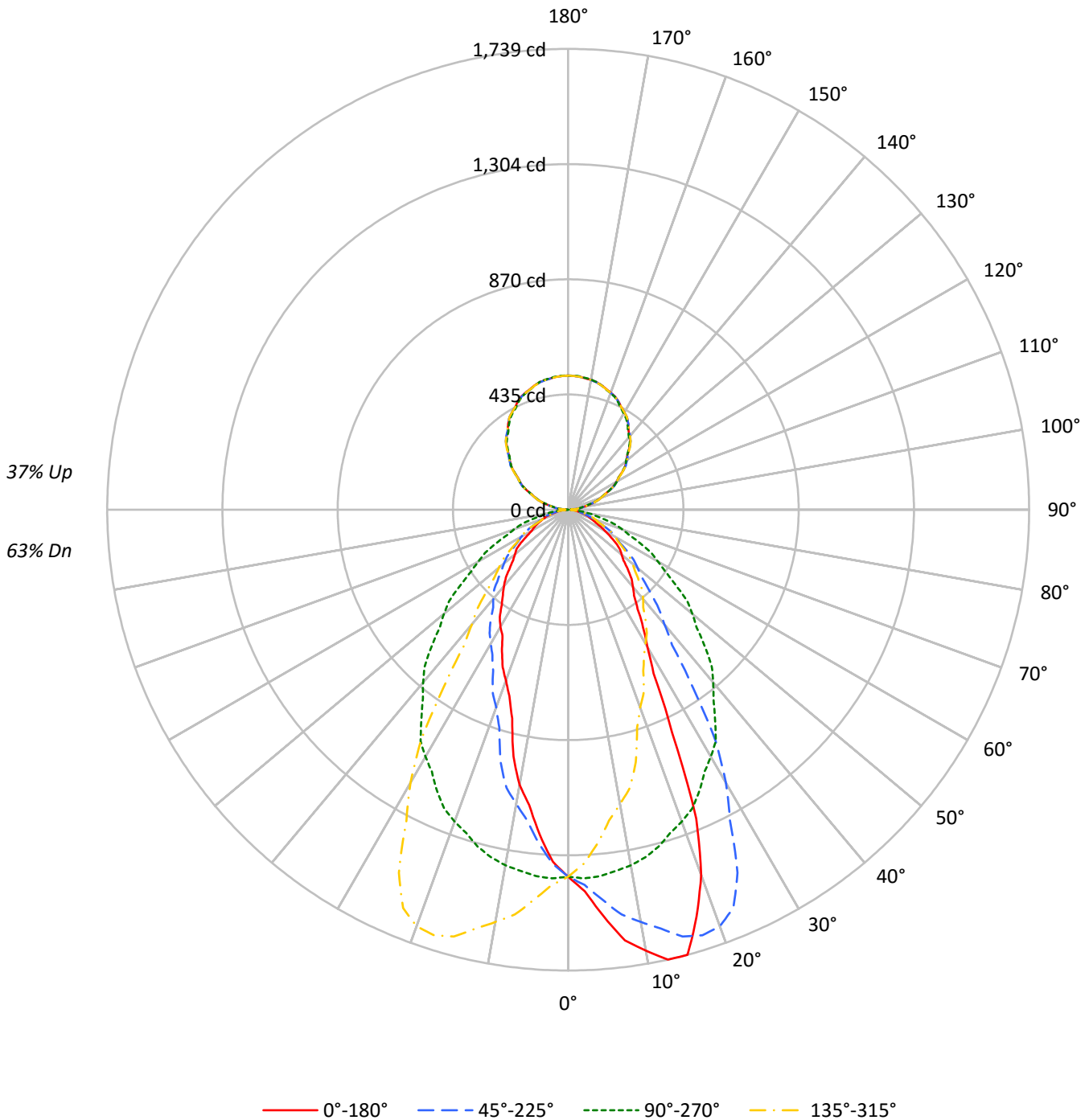
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	102	98	94	91	95	92	89	86	81	78	76	71	69	68	62	60	59	55
2	93	86	81	76	87	81	76	72	72	68	65	63	61	58	55	53	52	48
3	86	77	70	65	80	73	67	62	65	60	56	57	53	50	50	47	45	42
4	79	69	61	56	74	65	59	53	58	53	49	52	48	44	46	42	40	37
5	73	62	54	49	69	59	52	47	53	47	43	47	43	39	42	38	36	33
6	68	56	49	43	64	53	46	41	48	42	38	43	38	35	38	35	32	29
7	63	51	44	38	59	49	42	37	44	38	34	40	35	32	35	32	29	27
8	59	47	40	34	55	45	38	33	41	35	31	37	32	29	33	29	26	24
9	55	43	36	31	52	41	35	30	38	32	28	34	29	26	31	27	24	22
10	52	40	33	28	49	38	32	27	35	29	26	32	27	24	29	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	22357	22357	22357	22357
5°	24969	22498	19947	22498
10°	27702	22338	17290	22338
15°	29065	22011	13623	22011
20°	25197	21526	11789	21526
25°	16527	20861	10525	20861
30°	11123	20057	9527	20057
35°	9008	19042	8592	19042
40°	8011	17939	7950	17939
45°	7250	16643	7099	16643
50°	6599	15360	6574	15360
55°	6204	13937	6120	13937
60°	5189	12633	5125	12633
65°	4374	11469	4963	11469
70°	4046	10244	4683	10244
75°	3780	8914	4323	8914
80°	3487	7336	3849	7336
85°	3205	5798	3390	5798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.4
10°-20°	365.7	9.6
20°-30°	471.3	12.4
30°-40°	447.9	11.8
40°-50°	383.7	10.1
50°-60°	292.2	7.7
60°-70°	184.7	4.8
70°-80°	92.2	2.4
80°-90°	26.0	0.7
90°-100°	32.1	0.8
100°-110°	99.6	2.6
110°-120°	170.2	4.5
120°-130°	223.9	5.9
130°-140°	251.3	6.6
140°-150°	246.4	6.5
150°-160°	206.6	5.4
160°-170°	137.1	3.6
170°-180°	47.9	1.3
0°-30°	968.3	25.4
0°-40°	1416.2	37.2
0°-60°	2092.1	54.9
0°-90°	2395.0	62.9
90°-120°	301.9	7.9
90°-150°	1023.3	26.9
90°-180°	1415.0	37.1
0°-180°	3810.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1385	1385	1385	1385	1385	
5°	1541	1388	1231	1388	1541	152
15°	1739	1317	815	1317	1739	469
25°	928	1171	591	1171	928	440
35°	457	966	436	966	457	292
45°	318	729	311	729	318	246
55°	220	495	217	495	220	193
65°	114	300	130	300	114	117
75°	61	143	69	143	61	64
85°	17	31	18	31	17	19
90°	14	0	14	0	14	7
95°	26	22	26	22	26	30
105°	95	92	95	92	95	100
115°	171	171	171	171	171	169
125°	249	248	249	248	249	222
135°	325	322	325	322	325	250
145°	394	390	394	390	394	246
155°	450	446	450	446	450	207
165°	486	486	486	486	486	137
175°	504	505	504	505	504	48
180°	506	506	506	506	506	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1440.9	1442.0	1443.2	1440.5	1440.5	1438.1	1433.1	1429.4	1418.5	1417.0	1417.0
5°	1540.6	1539.5	1541.5	1535.3	1526.6	1524.7	1515.5	1503.5	1491.0	1477.1	1474.1
7.5°	1639.6	1638.2	1634.4	1633.3	1626.6	1612.1	1597.4	1581.8	1560.9	1540.7	1530.5
10°	1689.7	1705.6	1695.9	1679.1	1682.5	1659.9	1647.8	1627.2	1609.9	1579.5	1572.8
12.5°	1739.0	1745.2	1742.2	1732.6	1728.2	1712.6	1696.4	1678.4	1646.4	1619.2	1595.5
15°	1738.8	1747.9	1750.3	1747.5	1749.8	1748.9	1740.2	1725.3	1697.4	1667.5	1641.6
17.5°	1610.4	1616.7	1632.6	1643.2	1656.7	1685.2	1699.2	1704.7	1700.5	1683.6	1665.3
20°	1466.5	1455.9	1500.2	1522.8	1542.0	1590.1	1631.4	1647.4	1672.8	1672.4	1667.5
22.5°	1262.4	1265.0	1306.9	1333.8	1390.0	1438.0	1485.3	1545.0	1594.3	1626.9	1646.1
25°	927.7	945.9	987.8	1024.4	1086.8	1176.4	1257.6	1352.0	1441.0	1511.2	1578.1
27.5°	696.6	698.0	731.2	765.0	802.1	875.4	977.8	1090.4	1217.3	1322.0	1442.5
30°	596.6	593.7	607.7	628.4	660.1	716.9	793.8	904.6	1031.0	1188.8	1329.4
32.5°	525.8	525.9	536.5	551.8	578.2	616.4	669.1	759.0	878.6	1033.8	1198.4
35°	457.0	456.6	464.3	475.3	486.4	511.0	547.1	594.2	676.5	821.2	989.7
37.5°	407.8	409.9	413.7	420.6	432.8	446.5	468.2	499.8	558.4	644.0	785.6
40°	380.1	381.1	386.3	392.1	399.4	409.9	427.7	453.2	496.1	564.4	667.8
42.5°	354.7	355.6	359.4	364.8	370.4	381.1	395.8	417.8	452.5	505.9	591.2
45°	317.5	317.5	320.9	323.3	329.6	339.2	351.2	369.5	393.6	433.0	489.7
47.5°	282.7	282.8	285.0	289.2	293.1	300.6	312.5	327.3	344.9	375.4	423.9
50°	262.7	263.2	264.6	268.0	270.4	277.1	286.3	299.3	317.5	341.1	381.5
52.5°	246.6	246.2	248.1	249.5	251.2	256.0	262.8	274.3	290.6	311.1	344.6
55°	220.4	218.4	221.3	223.8	225.2	227.1	230.9	238.2	252.1	269.5	294.5
57.5°	187.7	186.9	188.9	191.1	195.7	200.9	204.1	208.7	215.9	228.4	253.2
60°	160.7	160.7	165.0	166.5	171.7	178.5	185.2	189.1	196.3	204.4	222.7
62.5°	136.9	137.2	139.2	140.7	143.6	151.9	161.4	169.8	176.6	184.5	196.6
65°	114.5	115.5	115.5	116.4	118.4	120.3	124.1	130.8	142.9	153.9	163.1
67.5°	97.2	97.5	97.7	98.7	99.2	101.3	102.8	105.8	108.7	119.1	130.4
70°	85.7	87.1	86.6	87.6	88.0	89.0	91.0	92.4	96.7	99.2	105.8
72.5°	74.8	75.9	75.8	76.4	77.7	77.9	79.4	80.9	83.6	85.7	89.3
75°	60.6	60.1	60.6	61.5	62.0	62.6	62.6	64.5	65.9	67.9	70.2
77.5°	46.8	47.2	47.1	47.2	47.3	48.2	48.1	49.0	50.4	51.4	52.5
80°	37.5	38.0	37.5	38.0	38.5	38.9	38.5	38.9	40.4	41.4	41.4
82.5°	29.0	29.1	29.4	29.5	29.6	29.7	30.4	30.5	31.6	31.4	31.8
85°	17.3	16.9	16.9	16.9	17.3	17.8	17.3	17.3	17.8	17.8	17.8
87.5°	9.0	9.4	9.4	9.4	9.3	9.4	9.4	9.8	9.5	9.9	9.1
90°	14.5	14.4	14.3	14.2	14.1	14.2	14.4	14.6	14.8	15.0	12.8
92.5°	13.9	13.9	13.8	13.8	13.8	13.8	13.7	13.7	13.6	13.6	13.1
95°	26.5	26.7	26.9	27.1	27.2	27.3	27.3	27.3	27.3	27.3	27.1
97.5°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.6
100°	58.5	58.6	58.7	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.6
102.5°	72.9	73.0	73.0	73.1	73.2	73.2	73.1	73.0	73.0	73.0	72.6
105°	94.8	94.8	94.8	94.8	94.8	94.7	94.5	94.3	94.2	94.0	93.8
107.5°	115.5	115.9	116.3	116.8	117.3	117.4	117.3	117.3	117.2	117.1	117.1
110°	131.5	131.8	132.1	132.3	132.6	132.8	132.8	132.8	132.8	132.8	132.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	146.9	147.1	147.3	147.5	147.7	148.0	148.2	148.5	148.6	148.8	148.9
115°	170.8	171.1	171.4	171.6	171.9	172.1	172.2	172.3	172.4	172.5	172.7
117.5°	193.6	193.9	194.2	194.4	194.7	195.0	195.2	195.5	195.7	196.0	196.4
120°	209.7	210.0	210.3	210.6	210.8	210.9	210.9	210.9	210.9	210.9	211.7
122.5°	225.4	225.6	225.8	226.0	226.2	226.4	226.7	226.9	227.2	227.3	227.9
125°	249.4	249.5	249.6	249.7	249.8	250.0	250.2	250.5	250.8	251.1	251.4
127.5°	271.3	271.5	271.8	272.1	272.5	272.8	273.1	273.4	273.8	274.2	274.5
130°	287.0	287.4	287.8	288.1	288.5	288.8	289.0	289.2	289.4	289.5	289.7
132.5°	302.0	302.3	302.6	302.9	303.2	303.6	304.0	304.4	304.8	305.2	305.2
135°	325.4	325.6	325.9	326.2	326.5	326.7	326.8	326.9	327.0	327.1	326.9
137.5°	346.6	346.9	347.3	347.7	348.1	348.4	348.4	348.5	348.6	348.6	348.4
140°	361.3	361.7	362.0	362.4	362.8	363.0	363.0	363.0	363.0	363.0	362.5
142.5°	374.6	374.9	375.3	375.7	376.1	376.3	376.2	376.1	376.1	376.0	375.6
145°	394.5	394.9	395.3	395.7	396.1	396.2	396.2	396.1	396.0	395.9	395.3
147.5°	412.5	412.7	413.1	413.5	413.9	414.0	413.8	413.5	413.3	413.1	412.7
150°	424.0	424.3	424.6	424.9	425.2	425.2	424.9	424.6	424.3	424.0	423.7
152.5°	435.0	435.4	435.6	436.0	436.4	436.4	436.0	435.6	435.4	435.0	434.5
155°	449.7	450.0	450.3	450.5	450.8	450.7	450.3	449.8	449.3	448.8	448.6
157.5°	462.3	462.8	463.2	463.6	464.1	464.0	463.4	462.7	462.1	461.5	461.3
160°	470.1	470.5	470.9	471.3	471.6	471.6	471.0	470.4	469.9	469.3	469.2
162.5°	477.0	477.4	477.9	478.3	478.8	478.7	478.1	477.4	476.7	476.2	476.1
165°	486.0	486.4	486.9	487.4	487.9	487.8	487.1	486.4	485.8	485.1	485.1
167.5°	493.3	493.8	494.3	494.7	495.3	495.2	494.6	493.9	493.2	492.6	492.6
170°	497.1	497.7	498.2	498.8	499.4	499.3	498.6	497.9	497.3	496.6	496.7
172.5°	500.1	500.7	501.2	501.8	502.4	502.4	501.7	501.1	500.4	499.7	499.8
175°	503.5	504.1	504.6	505.2	505.8	505.7	505.0	504.4	503.7	503.0	503.2
177.5°	505.0	505.5	506.0	506.3	506.8	506.8	506.3	506.0	505.5	505.0	505.1
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1417.8	1414.7	1412.0	1405.0	1401.7	1393.9	1392.8	1392.4	1382.3	1372.7	1370.1
5°	1466.5	1458.8	1447.2	1433.7	1419.8	1405.3	1395.7	1388.1	1368.8	1350.5	1339.9
7.5°	1515.5	1499.0	1479.0	1453.6	1432.3	1408.4	1390.7	1374.9	1347.6	1321.4	1303.7
10°	1552.1	1525.1	1498.7	1463.6	1436.2	1409.2	1384.2	1362.5	1331.7	1297.1	1272.5
12.5°	1574.8	1545.2	1508.7	1474.3	1438.9	1404.6	1371.1	1343.3	1307.1	1271.3	1242.2
15°	1605.5	1573.8	1529.5	1480.5	1434.7	1390.0	1351.5	1316.8	1269.7	1226.9	1191.3
17.5°	1630.6	1587.0	1539.4	1482.6	1429.7	1372.8	1323.2	1279.0	1226.5	1174.9	1132.9
20°	1638.7	1595.4	1540.6	1483.8	1421.3	1354.3	1301.0	1252.8	1196.6	1140.3	1092.1
22.5°	1633.7	1600.1	1539.0	1471.1	1407.0	1337.0	1276.7	1220.9	1158.5	1101.0	1045.2
25°	1599.8	1588.2	1530.5	1456.3	1383.3	1301.9	1232.2	1171.0	1099.9	1038.3	977.6
27.5°	1520.5	1545.5	1509.7	1430.8	1349.4	1262.3	1183.8	1114.3	1040.4	971.1	910.7
30°	1444.4	1501.6	1486.2	1413.1	1322.1	1236.5	1148.5	1075.8	996.9	925.7	866.0
32.5°	1340.0	1434.6	1449.6	1388.5	1294.4	1200.3	1108.1	1035.8	953.4	878.4	820.2
35°	1173.9	1315.4	1380.4	1341.3	1247.1	1145.6	1050.3	966.1	883.4	809.3	751.5
37.5°	975.8	1168.5	1276.7	1279.5	1192.9	1087.3	983.6	900.0	815.3	742.5	680.1
40°	847.3	1056.0	1197.0	1228.3	1155.2	1041.1	936.2	851.1	768.4	697.1	625.5
42.5°	731.8	939.8	1113.1	1167.5	1109.4	996.1	890.9	801.8	721.4	654.0	580.8
45°	591.8	773.6	964.7	1061.9	1029.6	924.7	813.6	728.9	653.4	595.1	524.9
47.5°	499.2	627.4	812.2	943.7	943.1	847.3	738.0	657.0	586.9	532.3	475.4
50°	446.5	558.1	714.4	863.7	876.1	795.8	691.8	611.5	546.1	488.8	443.1
52.5°	399.2	491.2	631.7	774.7	810.3	740.7	639.9	565.7	502.2	449.6	410.4
55°	337.2	408.5	515.3	649.0	702.9	653.8	564.4	495.1	443.6	399.4	365.6
57.5°	285.3	338.7	424.4	532.2	594.8	564.0	490.1	433.9	389.8	349.8	323.2
60°	252.6	296.3	369.0	459.0	528.3	506.6	443.6	391.2	353.6	319.0	294.0
62.5°	221.8	259.4	321.7	394.7	458.3	449.3	397.8	353.8	320.9	289.4	268.2
65°	178.5	205.9	254.5	311.8	362.8	367.1	330.1	300.2	270.9	245.8	227.1
67.5°	142.1	160.0	194.3	242.5	280.7	294.4	271.7	248.9	225.6	206.3	190.0
70°	119.8	134.2	159.3	198.2	233.4	247.8	234.8	217.0	196.8	180.9	166.9
72.5°	97.1	111.1	129.6	158.2	188.3	203.9	199.3	186.6	170.2	157.0	143.8
75°	73.1	77.5	90.0	109.2	132.8	146.3	149.7	142.9	129.9	119.8	112.1
77.5°	54.1	56.6	62.7	72.8	88.1	100.2	105.1	104.3	95.4	89.4	82.3
80°	43.3	44.8	47.6	51.9	63.5	75.5	78.9	78.9	72.7	70.2	63.1
82.5°	32.9	33.9	35.7	38.1	43.5	54.0	57.8	58.5	54.6	51.4	45.7
85°	18.8	18.3	19.2	20.6	21.7	24.5	30.3	31.3	30.3	26.5	25.0
87.5°	8.7	8.7	8.2	7.5	7.7	7.8	9.5	11.2	9.9	9.0	8.5
90°	10.7	8.7	6.6	5.0	3.9	2.7	1.6	0.5	1.6	2.7	3.9
92.5°	12.6	12.1	11.6	10.9	10.1	9.2	8.5	7.6	8.5	9.2	10.1
95°	27.0	26.8	26.6	26.0	25.1	24.1	23.2	22.2	23.2	24.1	25.1
97.5°	45.2	44.9	44.5	43.9	43.1	42.2	41.4	40.5	41.4	42.2	43.1
100°	58.3	58.1	57.8	57.3	56.6	55.7	55.0	54.2	55.0	55.7	56.6
102.5°	72.2	71.8	71.5	71.0	70.4	69.7	69.2	68.6	69.2	69.7	70.4
105°	93.6	93.4	93.2	92.9	92.7	92.4	92.1	91.8	92.1	92.4	92.7
107.5°	117.1	117.1	117.1	116.9	116.5	116.0	115.6	115.2	115.6	116.0	116.5
110°	132.8	132.8	132.8	132.5	132.0	131.4	130.8	130.3	130.8	131.4	132.0



TEST NUMBER: P331806-830

CATALOG NUMBER: S122RDIW-S675D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	149.0	149.1	149.2	148.9	148.4	147.8	147.2	146.7	147.2	147.8	148.4
115°	172.9	173.1	173.2	173.1	172.5	171.9	171.4	170.8	171.4	171.9	172.5
117.5°	197.0	197.6	198.0	197.9	197.2	196.4	195.7	194.9	195.7	196.4	197.2
120°	212.4	213.2	214.0	214.0	213.2	212.4	211.7	210.9	211.7	212.4	213.2
122.5°	228.4	228.9	229.5	229.3	228.4	227.4	226.6	225.6	226.6	227.4	228.4
125°	251.7	251.9	252.2	251.9	251.1	250.2	249.4	248.5	249.4	250.2	251.1
127.5°	274.8	275.2	275.5	275.1	274.1	273.0	271.9	270.8	271.9	273.0	274.1
130°	289.9	290.1	290.3	289.7	288.5	287.3	286.1	284.8	286.1	287.3	288.5
132.5°	305.2	305.1	305.1	304.5	303.6	302.6	301.5	300.6	301.5	302.6	303.6
135°	326.7	326.5	326.3	325.7	324.7	323.7	322.6	321.6	322.6	323.7	324.7
137.5°	348.2	347.9	347.6	347.0	346.2	345.3	344.5	343.7	344.5	345.3	346.2
140°	362.0	361.6	361.1	360.4	359.6	358.7	357.9	357.0	357.9	358.7	359.6
142.5°	375.3	374.9	374.7	374.1	373.2	372.4	371.6	370.7	371.6	372.4	373.2
145°	394.7	394.2	393.6	392.9	392.3	391.6	391.0	390.3	391.0	391.6	392.3
147.5°	412.4	412.0	411.6	411.0	410.2	409.4	408.6	407.8	408.6	409.4	410.2
150°	423.3	422.9	422.5	422.1	421.5	420.9	420.4	419.8	420.4	420.9	421.5
152.5°	434.0	433.6	433.2	432.6	432.1	431.5	430.9	430.4	430.9	431.5	432.1
155°	448.3	448.0	447.7	447.4	447.1	446.8	446.5	446.2	446.5	446.8	447.1
157.5°	461.1	460.9	460.7	460.6	460.4	460.2	460.1	459.9	460.1	460.2	460.4
160°	469.1	469.0	468.9	468.8	468.6	468.4	468.3	468.1	468.3	468.4	468.6
162.5°	476.0	475.9	475.8	475.7	475.6	475.6	475.6	475.5	475.6	475.6	475.6
165°	485.1	485.1	485.1	485.1	485.2	485.3	485.4	485.5	485.4	485.3	485.2
167.5°	492.6	492.6	492.6	492.8	493.0	493.3	493.6	493.9	493.6	493.3	493.0
170°	496.8	496.9	497.0	497.2	497.5	497.8	498.0	498.3	498.0	497.8	497.5
172.5°	499.9	500.0	500.1	500.3	500.6	500.9	501.1	501.4	501.1	500.9	500.6
175°	503.4	503.6	503.8	504.1	504.4	504.6	504.9	505.2	504.9	504.6	504.4
177.5°	505.3	505.5	505.6	505.8	506.1	506.2	506.5	506.7	506.5	506.2	506.1
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331806-830

CATALOG NUMBER: S122RDIW-S675D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1365.1	1362.4	1357.4	1349.6	1345.0	1336.9	1331.5	1334.6	1335.4	1334.6	1333.9
5°	1328.4	1318.2	1304.3	1290.8	1278.4	1264.9	1257.2	1253.8	1247.1	1243.2	1241.3
7.5°	1284.0	1266.6	1246.9	1223.4	1203.4	1182.6	1172.0	1166.6	1152.8	1145.4	1138.8
10°	1250.9	1223.5	1203.8	1173.0	1154.2	1126.8	1108.1	1108.5	1089.8	1079.1	1071.5
12.5°	1214.4	1184.2	1151.4	1123.7	1097.6	1075.6	1053.0	1043.9	1023.9	1013.7	993.0
15°	1153.8	1118.6	1084.0	1046.4	1020.0	985.8	953.1	913.1	880.9	853.0	845.4
17.5°	1087.5	1044.1	1009.3	965.3	919.9	862.4	824.5	801.3	781.9	767.2	756.2
20°	1042.1	997.9	960.8	894.4	833.3	794.4	766.5	748.7	728.4	712.6	703.9
22.5°	994.4	948.2	897.7	823.6	776.0	744.7	719.8	699.4	685.7	673.3	665.4
25°	926.6	876.1	792.9	741.9	703.4	670.7	653.4	640.8	626.4	609.5	601.9
27.5°	855.1	774.7	714.9	677.0	640.3	619.0	603.4	584.8	571.8	564.3	556.3
30°	801.5	721.2	674.6	633.2	607.2	583.6	565.3	554.8	542.2	529.2	524.0
32.5°	741.9	677.7	633.0	598.5	572.1	552.0	537.6	520.5	511.4	503.4	492.4
35°	667.8	619.3	578.3	550.4	525.4	509.1	492.2	482.1	465.7	459.0	454.7
37.5°	605.0	562.9	532.4	502.9	483.1	465.1	454.8	438.7	431.6	422.3	413.1
40°	569.7	528.3	498.9	474.9	452.7	439.2	426.3	413.3	402.7	398.4	387.3
42.5°	533.5	499.8	470.4	444.0	429.2	415.0	398.6	389.1	378.1	371.1	364.2
45°	483.5	453.7	428.7	407.0	390.7	375.8	365.1	349.3	343.1	329.0	323.3
47.5°	439.7	411.9	388.0	367.5	351.5	341.8	326.3	313.9	303.9	295.3	287.9
50°	408.5	385.4	362.3	344.0	329.6	315.7	299.7	293.5	278.1	273.7	269.5
52.5°	380.0	358.1	336.9	319.0	304.5	291.0	277.0	268.8	258.4	254.1	251.0
55°	340.2	319.0	298.8	282.9	268.4	254.5	245.8	235.7	230.9	227.5	223.8
57.5°	300.1	281.1	265.6	249.5	235.0	223.9	213.9	207.8	202.8	198.4	193.8
60°	274.8	256.5	242.5	227.5	212.6	203.5	195.9	188.6	182.9	176.1	174.2
62.5°	247.8	231.8	219.0	204.4	191.5	183.1	175.8	169.0	162.0	152.2	149.5
65°	210.8	198.2	184.7	172.8	161.2	153.0	142.4	134.7	131.9	130.8	130.4
67.5°	177.3	165.4	153.8	141.6	131.0	123.5	118.1	116.9	114.9	114.3	113.0
70°	155.0	143.8	132.3	120.7	110.7	109.2	107.3	105.4	102.9	102.0	101.0
72.5°	134.9	123.5	111.9	102.6	98.3	96.5	94.6	92.7	91.0	90.1	89.4
75°	103.4	92.8	85.2	81.8	79.4	77.9	75.0	73.6	72.7	71.2	70.7
77.5°	74.5	68.5	64.9	62.9	60.3	58.8	57.1	55.7	54.7	54.4	53.6
80°	56.7	53.9	51.5	48.6	47.6	45.7	45.2	43.8	44.3	42.8	42.8
82.5°	44.1	40.4	38.4	37.0	36.1	34.6	34.0	33.4	33.5	32.4	32.4
85°	22.6	21.7	20.6	19.7	19.7	18.3	18.8	18.3	18.3	17.3	16.9
87.5°	8.3	8.2	7.9	8.3	8.8	8.8	8.8	8.3	8.3	8.2	7.8
90°	5.0	6.6	8.7	10.7	12.8	15.0	14.8	14.6	14.4	14.2	14.1
92.5°	10.9	11.6	12.1	12.6	13.1	13.6	13.6	13.7	13.7	13.8	13.8
95°	26.0	26.6	26.8	27.0	27.1	27.3	27.3	27.3	27.3	27.3	27.2
97.5°	43.9	44.5	44.9	45.2	45.6	45.9	45.9	45.9	45.9	45.9	45.9
100°	57.3	57.8	58.1	58.3	58.6	58.9	58.9	58.9	58.9	58.9	58.9
102.5°	71.0	71.5	71.8	72.2	72.6	73.0	73.0	73.0	73.1	73.2	73.2
105°	92.9	93.2	93.4	93.6	93.8	94.0	94.2	94.3	94.5	94.7	94.8
107.5°	116.9	117.1	117.1	117.1	117.1	117.1	117.2	117.3	117.3	117.4	117.3
110°	132.5	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.6



TEST NUMBER: P331806-830

CATALOG NUMBER: S122RDIW-S675D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	148.9	149.2	149.1	149.0	148.9	148.8	148.6	148.5	148.2	148.0	147.7
115°	173.1	173.2	173.1	172.9	172.7	172.5	172.4	172.3	172.2	172.1	171.9
117.5°	197.9	198.0	197.6	197.0	196.4	196.0	195.7	195.5	195.2	195.0	194.7
120°	214.0	214.0	213.2	212.4	211.7	210.9	210.9	210.9	210.9	210.9	210.8
122.5°	229.3	229.5	228.9	228.4	227.9	227.3	227.2	226.9	226.7	226.4	226.2
125°	251.9	252.2	251.9	251.7	251.4	251.1	250.8	250.5	250.2	250.0	249.8
127.5°	275.1	275.5	275.2	274.8	274.5	274.2	273.8	273.4	273.1	272.8	272.5
130°	289.7	290.3	290.1	289.9	289.7	289.5	289.4	289.2	289.0	288.8	288.5
132.5°	304.5	305.1	305.1	305.2	305.2	305.2	304.8	304.4	304.0	303.6	303.2
135°	325.7	326.3	326.5	326.7	326.9	327.1	327.0	326.9	326.8	326.7	326.5
137.5°	347.0	347.6	347.9	348.2	348.4	348.6	348.6	348.5	348.4	348.4	348.1
140°	360.4	361.1	361.6	362.0	362.5	363.0	363.0	363.0	363.0	363.0	362.8
142.5°	374.1	374.7	374.9	375.3	375.6	376.0	376.1	376.1	376.2	376.3	376.1
145°	392.9	393.6	394.2	394.7	395.3	395.9	396.0	396.1	396.2	396.2	396.1
147.5°	411.0	411.6	412.0	412.4	412.7	413.1	413.3	413.5	413.8	414.0	413.9
150°	422.1	422.5	422.9	423.3	423.7	424.0	424.3	424.6	424.9	425.2	425.2
152.5°	432.6	433.2	433.6	434.0	434.5	435.0	435.4	435.6	436.0	436.4	436.4
155°	447.4	447.7	448.0	448.3	448.6	448.8	449.3	449.8	450.3	450.7	450.8
157.5°	460.6	460.7	460.9	461.1	461.3	461.5	462.1	462.7	463.4	464.0	464.1
160°	468.8	468.9	469.0	469.1	469.2	469.3	469.9	470.4	471.0	471.6	471.6
162.5°	475.7	475.8	475.9	476.0	476.1	476.2	476.7	477.4	478.1	478.7	478.8
165°	485.1	485.1	485.1	485.1	485.1	485.1	485.8	486.4	487.1	487.8	487.9
167.5°	492.8	492.6	492.6	492.6	492.6	492.6	493.2	493.9	494.6	495.2	495.3
170°	497.2	497.0	496.9	496.8	496.7	496.6	497.3	497.9	498.6	499.3	499.4
172.5°	500.3	500.1	500.0	499.9	499.8	499.7	500.4	501.1	501.7	502.4	502.4
175°	504.1	503.8	503.6	503.4	503.2	503.0	503.7	504.4	505.0	505.7	505.8
177.5°	505.8	505.6	505.5	505.3	505.1	505.0	505.5	506.0	506.3	506.8	506.8
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331806-830

CATALOG NUMBER: S122RDIW-S675D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1329.6	1330.4	1329.3	1330.0	1329.3	1330.4	1329.6	1333.9	1334.6	1335.4	1334.6
5°	1238.9	1233.1	1232.2	1230.7	1232.2	1233.1	1238.9	1241.3	1243.2	1247.1	1253.8
7.5°	1130.6	1129.6	1127.3	1123.9	1127.3	1129.6	1130.6	1138.8	1145.4	1152.8	1166.6
10°	1060.8	1058.5	1058.0	1054.6	1058.0	1058.5	1060.8	1071.5	1079.1	1089.8	1108.5
12.5°	979.3	963.7	962.1	953.8	962.1	963.7	979.3	993.0	1013.7	1023.9	1043.9
15°	833.8	830.9	821.2	815.0	821.2	830.9	833.8	845.4	853.0	880.9	913.1
17.5°	750.6	741.2	738.2	736.9	738.2	741.2	750.6	756.2	767.2	781.9	801.3
20°	697.1	688.5	687.0	686.1	687.0	688.5	697.1	703.9	712.6	728.4	748.7
22.5°	660.2	651.1	647.4	644.5	647.4	651.1	660.2	665.4	673.3	685.7	699.4
25°	597.1	593.7	591.8	590.8	591.8	593.7	597.1	601.9	609.5	626.4	640.8
27.5°	547.7	540.3	538.9	536.4	538.9	540.3	547.7	556.3	564.3	571.8	584.8
30°	519.6	517.2	513.9	511.0	513.9	517.2	519.6	524.0	529.2	542.2	554.8
32.5°	486.5	484.5	481.5	480.1	481.5	484.5	486.5	492.4	503.4	511.4	520.5
35°	449.9	443.1	440.3	435.9	440.3	443.1	449.9	454.7	459.0	465.7	482.1
37.5°	411.0	407.6	403.5	404.9	403.5	407.6	411.0	413.1	422.3	431.6	438.7
40°	381.1	378.6	377.7	377.2	377.7	378.6	381.1	387.3	398.4	402.7	413.3
42.5°	357.2	350.5	348.1	348.0	348.1	350.5	357.2	364.2	371.1	378.1	389.1
45°	320.9	314.6	310.3	310.9	310.3	314.6	320.9	323.3	329.0	343.1	349.3
47.5°	283.8	283.6	280.9	281.7	280.9	283.6	283.8	287.9	295.3	303.9	313.9
50°	266.1	263.2	261.3	261.7	261.3	263.2	266.1	269.5	273.7	278.1	293.5
52.5°	249.1	246.7	245.1	247.1	245.1	246.7	249.1	251.0	254.1	258.4	268.8
55°	221.3	218.4	217.9	217.4	217.9	218.4	221.3	223.8	227.5	230.9	235.7
57.5°	190.2	188.3	185.4	184.2	185.4	188.3	190.2	193.8	198.4	202.8	207.8
60°	167.9	164.1	159.3	158.7	159.3	164.1	167.9	174.2	176.1	182.9	188.6
62.5°	147.5	146.8	145.8	145.7	145.8	146.8	147.5	149.5	152.2	162.0	169.0
65°	129.4	128.9	129.4	129.9	129.4	128.9	129.4	130.4	130.8	131.9	134.7
67.5°	112.8	111.9	111.0	111.4	111.0	111.9	112.8	113.0	114.3	114.9	116.9
70°	100.1	99.6	99.2	99.2	99.2	99.6	100.1	101.0	102.0	102.9	105.4
72.5°	87.8	87.7	87.2	86.8	87.2	87.7	87.8	89.4	90.1	91.0	92.7
75°	70.2	69.3	69.3	69.3	69.3	69.3	70.2	70.7	71.2	72.7	73.6
77.5°	53.5	53.1	52.5	52.1	52.5	53.1	53.5	53.6	54.4	54.7	55.7
80°	42.3	41.8	41.4	41.4	41.4	41.8	42.3	42.8	42.8	44.3	43.8
82.5°	32.3	31.9	31.8	31.4	31.8	31.9	32.3	32.4	32.4	33.5	33.4
85°	17.3	17.8	17.3	18.3	17.3	17.8	17.3	16.9	17.3	18.3	18.3
87.5°	7.8	7.4	7.9	7.5	7.9	7.4	7.8	7.8	8.2	8.3	8.3
90°	14.2	14.3	14.4	14.5	14.4	14.3	14.2	14.1	14.2	14.4	14.6
92.5°	13.8	13.8	13.9	13.9	13.9	13.8	13.8	13.8	13.8	13.7	13.7
95°	27.1	26.9	26.7	26.5	26.7	26.9	27.1	27.2	27.3	27.3	27.3
97.5°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
100°	58.8	58.7	58.6	58.5	58.6	58.7	58.8	58.9	58.9	58.9	58.9
102.5°	73.1	73.0	73.0	72.9	73.0	73.0	73.1	73.2	73.2	73.1	73.0
105°	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.7	94.5	94.3
107.5°	116.8	116.3	115.9	115.5	115.9	116.3	116.8	117.3	117.4	117.3	117.3
110°	132.3	132.1	131.8	131.5	131.8	132.1	132.3	132.6	132.8	132.8	132.8



TEST NUMBER: P331806-830

CATALOG NUMBER: S122RDIW-S675D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	147.5	147.3	147.1	146.9	147.1	147.3	147.5	147.7	148.0	148.2	148.5
115°	171.6	171.4	171.1	170.8	171.1	171.4	171.6	171.9	172.1	172.2	172.3
117.5°	194.4	194.2	193.9	193.6	193.9	194.2	194.4	194.7	195.0	195.2	195.5
120°	210.6	210.3	210.0	209.7	210.0	210.3	210.6	210.8	210.9	210.9	210.9
122.5°	226.0	225.8	225.6	225.4	225.6	225.8	226.0	226.2	226.4	226.7	226.9
125°	249.7	249.6	249.5	249.4	249.5	249.6	249.7	249.8	250.0	250.2	250.5
127.5°	272.1	271.8	271.5	271.3	271.5	271.8	272.1	272.5	272.8	273.1	273.4
130°	288.1	287.8	287.4	287.0	287.4	287.8	288.1	288.5	288.8	289.0	289.2
132.5°	302.9	302.6	302.3	302.0	302.3	302.6	302.9	303.2	303.6	304.0	304.4
135°	326.2	325.9	325.6	325.4	325.6	325.9	326.2	326.5	326.7	326.8	326.9
137.5°	347.7	347.3	346.9	346.6	346.9	347.3	347.7	348.1	348.4	348.4	348.5
140°	362.4	362.0	361.7	361.3	361.7	362.0	362.4	362.8	363.0	363.0	363.0
142.5°	375.7	375.3	374.9	374.6	374.9	375.3	375.7	376.1	376.3	376.2	376.1
145°	395.7	395.3	394.9	394.5	394.9	395.3	395.7	396.1	396.2	396.2	396.1
147.5°	413.5	413.1	412.7	412.5	412.7	413.1	413.5	413.9	414.0	413.8	413.5
150°	424.9	424.6	424.3	424.0	424.3	424.6	424.9	425.2	425.2	424.9	424.6
152.5°	436.0	435.6	435.4	435.0	435.4	435.6	436.0	436.4	436.4	436.0	435.6
155°	450.5	450.3	450.0	449.7	450.0	450.3	450.5	450.8	450.7	450.3	449.8
157.5°	463.6	463.2	462.8	462.3	462.8	463.2	463.6	464.1	464.0	463.4	462.7
160°	471.3	470.9	470.5	470.1	470.5	470.9	471.3	471.6	471.6	471.0	470.4
162.5°	478.3	477.9	477.4	477.0	477.4	477.9	478.3	478.8	478.7	478.1	477.4
165°	487.4	486.9	486.4	486.0	486.4	486.9	487.4	487.9	487.8	487.1	486.4
167.5°	494.7	494.3	493.8	493.3	493.8	494.3	494.7	495.3	495.2	494.6	493.9
170°	498.8	498.2	497.7	497.1	497.7	498.2	498.8	499.4	499.3	498.6	497.9
172.5°	501.8	501.2	500.7	500.1	500.7	501.2	501.8	502.4	502.4	501.7	501.1
175°	505.2	504.6	504.1	503.5	504.1	504.6	505.2	505.8	505.7	505.0	504.4
177.5°	506.3	506.0	505.5	505.0	505.5	506.0	506.3	506.8	506.8	506.3	506.0
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331806-830

CATALOG NUMBER: S122RDIW-S675D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1331.5	1336.9	1345.0	1349.6	1357.4	1362.4	1365.1	1370.1	1372.7	1382.3	1392.4
5°	1257.2	1264.9	1278.4	1290.8	1304.3	1318.2	1328.4	1339.9	1350.5	1368.8	1388.1
7.5°	1172.0	1182.6	1203.4	1223.4	1246.9	1266.6	1284.0	1303.7	1321.4	1347.6	1374.9
10°	1108.1	1126.8	1154.2	1173.0	1203.8	1223.5	1250.9	1272.5	1297.1	1331.7	1362.5
12.5°	1053.0	1075.6	1097.6	1123.7	1151.4	1184.2	1214.4	1242.2	1271.3	1307.1	1343.3
15°	953.1	985.8	1020.0	1046.4	1084.0	1118.6	1153.8	1191.3	1226.9	1269.7	1316.8
17.5°	824.5	862.4	919.9	965.3	1009.3	1044.1	1087.5	1132.9	1174.9	1226.5	1279.0
20°	766.5	794.4	833.3	894.4	960.8	997.9	1042.1	1092.1	1140.3	1196.6	1252.8
22.5°	719.8	744.7	776.0	823.6	897.7	948.2	994.4	1045.2	1101.0	1158.5	1220.9
25°	653.4	670.7	703.4	741.9	792.9	876.1	926.6	977.6	1038.3	1099.9	1171.0
27.5°	603.4	619.0	640.3	677.0	714.9	774.7	855.1	910.7	971.1	1040.4	1114.3
30°	565.3	583.6	607.2	633.2	674.6	721.2	801.5	866.0	925.7	996.9	1075.8
32.5°	537.6	552.0	572.1	598.5	633.0	677.7	741.9	820.2	878.4	953.4	1035.8
35°	492.2	509.1	525.4	550.4	578.3	619.3	667.8	751.5	809.3	883.4	966.1
37.5°	454.8	465.1	483.1	502.9	532.4	562.9	605.0	680.1	742.5	815.3	900.0
40°	426.3	439.2	452.7	474.9	498.9	528.3	569.7	625.5	697.1	768.4	851.1
42.5°	398.6	415.0	429.2	444.0	470.4	499.8	533.5	580.8	654.0	721.4	801.8
45°	365.1	375.8	390.7	407.0	428.7	453.7	483.5	524.9	595.1	653.4	728.9
47.5°	326.3	341.8	351.5	367.5	388.0	411.9	439.7	475.4	532.3	586.9	657.0
50°	299.7	315.7	329.6	344.0	362.3	385.4	408.5	443.1	488.8	546.1	611.5
52.5°	277.0	291.0	304.5	319.0	336.9	358.1	380.0	410.4	449.6	502.2	565.7
55°	245.8	254.5	268.4	282.9	298.8	319.0	340.2	365.6	399.4	443.6	495.1
57.5°	213.9	223.9	235.0	249.5	265.6	281.1	300.1	323.2	349.8	389.8	433.9
60°	195.9	203.5	212.6	227.5	242.5	256.5	274.8	294.0	319.0	353.6	391.2
62.5°	175.8	183.1	191.5	204.4	219.0	231.8	247.8	268.2	289.4	320.9	353.8
65°	142.4	153.0	161.2	172.8	184.7	198.2	210.8	227.1	245.8	270.9	300.2
67.5°	118.1	123.5	131.0	141.6	153.8	165.4	177.3	190.0	206.3	225.6	248.9
70°	107.3	109.2	110.7	120.7	132.3	143.8	155.0	166.9	180.9	196.8	217.0
72.5°	94.6	96.5	98.3	102.6	111.9	123.5	134.9	143.8	157.0	170.2	186.6
75°	75.0	77.9	79.4	81.8	85.2	92.8	103.4	112.1	119.8	129.9	142.9
77.5°	57.1	58.8	60.3	62.9	64.9	68.5	74.5	82.3	89.4	95.4	104.3
80°	45.2	45.7	47.6	48.6	51.5	53.9	56.7	63.1	70.2	72.7	78.9
82.5°	34.0	34.6	36.1	37.0	38.4	40.4	44.1	45.7	51.4	54.6	58.5
85°	18.8	18.3	19.7	19.7	20.6	21.7	22.6	25.0	26.5	30.3	31.3
87.5°	8.8	8.8	8.8	8.3	7.9	8.2	8.3	8.5	9.0	9.9	11.2
90°	14.8	15.0	12.8	10.7	8.7	6.6	5.0	3.9	2.7	1.6	0.5
92.5°	13.6	13.6	13.1	12.6	12.1	11.6	10.9	10.1	9.2	8.5	7.6
95°	27.3	27.3	27.1	27.0	26.8	26.6	26.0	25.1	24.1	23.2	22.2
97.5°	45.9	45.9	45.6	45.2	44.9	44.5	43.9	43.1	42.2	41.4	40.5
100°	58.9	58.9	58.6	58.3	58.1	57.8	57.3	56.6	55.7	55.0	54.2
102.5°	73.0	73.0	72.6	72.2	71.8	71.5	71.0	70.4	69.7	69.2	68.6
105°	94.2	94.0	93.8	93.6	93.4	93.2	92.9	92.7	92.4	92.1	91.8
107.5°	117.2	117.1	117.1	117.1	117.1	117.1	116.9	116.5	116.0	115.6	115.2
110°	132.8	132.8	132.8	132.8	132.8	132.8	132.5	132.0	131.4	130.8	130.3



TEST NUMBER: P331806-830

CATALOG NUMBER: S122RDIW-S675D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	148.6	148.8	148.9	149.0	149.1	149.2	148.9	148.4	147.8	147.2	146.7
115°	172.4	172.5	172.7	172.9	173.1	173.2	173.1	172.5	171.9	171.4	170.8
117.5°	195.7	196.0	196.4	197.0	197.6	198.0	197.9	197.2	196.4	195.7	194.9
120°	210.9	210.9	211.7	212.4	213.2	214.0	214.0	213.2	212.4	211.7	210.9
122.5°	227.2	227.3	227.9	228.4	228.9	229.5	229.3	228.4	227.4	226.6	225.6
125°	250.8	251.1	251.4	251.7	251.9	252.2	251.9	251.1	250.2	249.4	248.5
127.5°	273.8	274.2	274.5	274.8	275.2	275.5	275.1	274.1	273.0	271.9	270.8
130°	289.4	289.5	289.7	289.9	290.1	290.3	289.7	288.5	287.3	286.1	284.8
132.5°	304.8	305.2	305.2	305.2	305.1	305.1	304.5	303.6	302.6	301.5	300.6
135°	327.0	327.1	326.9	326.7	326.5	326.3	325.7	324.7	323.7	322.6	321.6
137.5°	348.6	348.6	348.4	348.2	347.9	347.6	347.0	346.2	345.3	344.5	343.7
140°	363.0	363.0	362.5	362.0	361.6	361.1	360.4	359.6	358.7	357.9	357.0
142.5°	376.1	376.0	375.6	375.3	374.9	374.7	374.1	373.2	372.4	371.6	370.7
145°	396.0	395.9	395.3	394.7	394.2	393.6	392.9	392.3	391.6	391.0	390.3
147.5°	413.3	413.1	412.7	412.4	412.0	411.6	411.0	410.2	409.4	408.6	407.8
150°	424.3	424.0	423.7	423.3	422.9	422.5	422.1	421.5	420.9	420.4	419.8
152.5°	435.4	435.0	434.5	434.0	433.6	433.2	432.6	432.1	431.5	430.9	430.4
155°	449.3	448.8	448.6	448.3	448.0	447.7	447.4	447.1	446.8	446.5	446.2
157.5°	462.1	461.5	461.3	461.1	460.9	460.7	460.6	460.4	460.2	460.1	459.9
160°	469.9	469.3	469.2	469.1	469.0	468.9	468.8	468.6	468.4	468.3	468.1
162.5°	476.7	476.2	476.1	476.0	475.9	475.8	475.7	475.6	475.6	475.6	475.5
165°	485.8	485.1	485.1	485.1	485.1	485.1	485.1	485.2	485.3	485.4	485.5
167.5°	493.2	492.6	492.6	492.6	492.6	492.6	492.8	493.0	493.3	493.6	493.9
170°	497.3	496.6	496.7	496.8	496.9	497.0	497.2	497.5	497.8	498.0	498.3
172.5°	500.4	499.7	499.8	499.9	500.0	500.1	500.3	500.6	500.9	501.1	501.4
175°	503.7	503.0	503.2	503.4	503.6	503.8	504.1	504.4	504.6	504.9	505.2
177.5°	505.5	505.0	505.1	505.3	505.5	505.6	505.8	506.1	506.2	506.5	506.7
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



TEST NUMBER: P331806-830

CATALOG NUMBER: S122RDIW-S675D435U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1392.8	1393.9	1401.7	1405.0	1412.0	1414.7	1417.8	1417.0	1417.0	1418.5	1429.4
5°	1395.7	1405.3	1419.8	1433.7	1447.2	1458.8	1466.5	1474.1	1477.1	1491.0	1503.5
7.5°	1390.7	1408.4	1432.3	1453.6	1479.0	1499.0	1515.5	1530.5	1540.7	1560.9	1581.8
10°	1384.2	1409.2	1436.2	1463.6	1498.7	1525.1	1552.1	1572.8	1579.5	1609.9	1627.2
12.5°	1371.1	1404.6	1438.9	1474.3	1508.7	1545.2	1574.8	1595.5	1619.2	1646.4	1678.4
15°	1351.5	1390.0	1434.7	1480.5	1529.5	1573.8	1605.5	1641.6	1667.5	1697.4	1725.3
17.5°	1323.2	1372.8	1429.7	1482.6	1539.4	1587.0	1630.6	1665.3	1683.6	1700.5	1704.7
20°	1301.0	1354.3	1421.3	1483.8	1540.6	1595.4	1638.7	1667.5	1672.4	1672.8	1647.4
22.5°	1276.7	1337.0	1407.0	1471.1	1539.0	1600.1	1633.7	1646.1	1626.9	1594.3	1545.0
25°	1232.2	1301.9	1383.3	1456.3	1530.5	1588.2	1599.8	1578.1	1511.2	1441.0	1352.0
27.5°	1183.8	1262.3	1349.4	1430.8	1509.7	1545.5	1520.5	1442.5	1322.0	1217.3	1090.4
30°	1148.5	1236.5	1322.1	1413.1	1486.2	1501.6	1444.4	1329.4	1188.8	1031.0	904.6
32.5°	1108.1	1200.3	1294.4	1388.5	1449.6	1434.6	1340.0	1198.4	1033.8	878.6	759.0
35°	1050.3	1145.6	1247.1	1341.3	1380.4	1315.4	1173.9	989.7	821.2	676.5	594.2
37.5°	983.6	1087.3	1192.9	1279.5	1276.7	1168.5	975.8	785.6	644.0	558.4	499.8
40°	936.2	1041.1	1155.2	1228.3	1197.0	1056.0	847.3	667.8	564.4	496.1	453.2
42.5°	890.9	996.1	1109.4	1167.5	1113.1	939.8	731.8	591.2	505.9	452.5	417.8
45°	813.6	924.7	1029.6	1061.9	964.7	773.6	591.8	489.7	433.0	393.6	369.5
47.5°	738.0	847.3	943.1	943.7	812.2	627.4	499.2	423.9	375.4	344.9	327.3
50°	691.8	795.8	876.1	863.7	714.4	558.1	446.5	381.5	341.1	317.5	299.3
52.5°	639.9	740.7	810.3	774.7	631.7	491.2	399.2	344.6	311.1	290.6	274.3
55°	564.4	653.8	702.9	649.0	515.3	408.5	337.2	294.5	269.5	252.1	238.2
57.5°	490.1	564.0	594.8	532.2	424.4	338.7	285.3	253.2	228.4	215.9	208.7
60°	443.6	506.6	528.3	459.0	369.0	296.3	252.6	222.7	204.4	196.3	189.1
62.5°	397.8	449.3	458.3	394.7	321.7	259.4	221.8	196.6	184.5	176.6	169.8
65°	330.1	367.1	362.8	311.8	254.5	205.9	178.5	163.1	153.9	142.9	130.8
67.5°	271.7	294.4	280.7	242.5	194.3	160.0	142.1	130.4	119.1	108.7	105.8
70°	234.8	247.8	233.4	198.2	159.3	134.2	119.8	105.8	99.2	96.7	92.4
72.5°	199.3	203.9	188.3	158.2	129.6	111.1	97.1	89.3	85.7	83.6	80.9
75°	149.7	146.3	132.8	109.2	90.0	77.5	73.1	70.2	67.9	65.9	64.5
77.5°	105.1	100.2	88.1	72.8	62.7	56.6	54.1	52.5	51.4	50.4	49.0
80°	78.9	75.5	63.5	51.9	47.6	44.8	43.3	41.4	41.4	40.4	38.9
82.5°	57.8	54.0	43.5	38.1	35.7	33.9	32.9	31.8	31.4	31.6	30.5
85°	30.3	24.5	21.7	20.6	19.2	18.3	18.8	17.8	17.8	17.8	17.3
87.5°	9.5	7.8	7.7	7.5	8.2	8.7	8.7	9.1	9.9	9.5	9.8
90°	1.6	2.7	3.9	5.0	6.6	8.7	10.7	12.8	15.0	14.8	14.6
92.5°	8.5	9.2	10.1	10.9	11.6	12.1	12.6	13.1	13.6	13.6	13.7
95°	23.2	24.1	25.1	26.0	26.6	26.8	27.0	27.1	27.3	27.3	27.3
97.5°	41.4	42.2	43.1	43.9	44.5	44.9	45.2	45.6	45.9	45.9	45.9
100°	55.0	55.7	56.6	57.3	57.8	58.1	58.3	58.6	58.9	58.9	58.9
102.5°	69.2	69.7	70.4	71.0	71.5	71.8	72.2	72.6	73.0	73.0	73.0
105°	92.1	92.4	92.7	92.9	93.2	93.4	93.6	93.8	94.0	94.2	94.3
107.5°	115.6	116.0	116.5	116.9	117.1	117.1	117.1	117.1	117.1	117.2	117.3
110°	130.8	131.4	132.0	132.5	132.8	132.8	132.8	132.8	132.8	132.8	132.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	147.2	147.8	148.4	148.9	149.2	149.1	149.0	148.9	148.8	148.6	148.5
115°	171.4	171.9	172.5	173.1	173.2	173.1	172.9	172.7	172.5	172.4	172.3
117.5°	195.7	196.4	197.2	197.9	198.0	197.6	197.0	196.4	196.0	195.7	195.5
120°	211.7	212.4	213.2	214.0	214.0	213.2	212.4	211.7	210.9	210.9	210.9
122.5°	226.6	227.4	228.4	229.3	229.5	228.9	228.4	227.9	227.3	227.2	226.9
125°	249.4	250.2	251.1	251.9	252.2	251.9	251.7	251.4	251.1	250.8	250.5
127.5°	271.9	273.0	274.1	275.1	275.5	275.2	274.8	274.5	274.2	273.8	273.4
130°	286.1	287.3	288.5	289.7	290.3	290.1	289.9	289.7	289.5	289.4	289.2
132.5°	301.5	302.6	303.6	304.5	305.1	305.1	305.2	305.2	305.2	304.8	304.4
135°	322.6	323.7	324.7	325.7	326.3	326.5	326.7	326.9	327.1	327.0	326.9
137.5°	344.5	345.3	346.2	347.0	347.6	347.9	348.2	348.4	348.6	348.6	348.5
140°	357.9	358.7	359.6	360.4	361.1	361.6	362.0	362.5	363.0	363.0	363.0
142.5°	371.6	372.4	373.2	374.1	374.7	374.9	375.3	375.6	376.0	376.1	376.1
145°	391.0	391.6	392.3	392.9	393.6	394.2	394.7	395.3	395.9	396.0	396.1
147.5°	408.6	409.4	410.2	411.0	411.6	412.0	412.4	412.7	413.1	413.3	413.5
150°	420.4	420.9	421.5	422.1	422.5	422.9	423.3	423.7	424.0	424.3	424.6
152.5°	430.9	431.5	432.1	432.6	433.2	433.6	434.0	434.5	435.0	435.4	435.6
155°	446.5	446.8	447.1	447.4	447.7	448.0	448.3	448.6	448.8	449.3	449.8
157.5°	460.1	460.2	460.4	460.6	460.7	460.9	461.1	461.3	461.5	462.1	462.7
160°	468.3	468.4	468.6	468.8	468.9	469.0	469.1	469.2	469.3	469.9	470.4
162.5°	475.6	475.6	475.6	475.7	475.8	475.9	476.0	476.1	476.2	476.7	477.4
165°	485.4	485.3	485.2	485.1	485.1	485.1	485.1	485.1	485.1	485.8	486.4
167.5°	493.6	493.3	493.0	492.8	492.6	492.6	492.6	492.6	492.6	493.2	493.9
170°	498.0	497.8	497.5	497.2	497.0	496.9	496.8	496.7	496.6	497.3	497.9
172.5°	501.1	500.9	500.6	500.3	500.1	500.0	499.9	499.8	499.7	500.4	501.1
175°	504.9	504.6	504.4	504.1	503.8	503.6	503.4	503.2	503.0	503.7	504.4
177.5°	506.5	506.2	506.1	505.8	505.6	505.5	505.3	505.1	505.0	505.5	506.0
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1433.1	1438.1	1440.5	1440.5	1443.2	1442.0	1440.9
5°	1515.5	1524.7	1526.6	1535.3	1541.5	1539.5	1540.6
7.5°	1597.4	1612.1	1626.6	1633.3	1634.4	1638.2	1639.6
10°	1647.8	1659.9	1682.5	1679.1	1695.9	1705.6	1689.7
12.5°	1696.4	1712.6	1728.2	1732.6	1742.2	1745.2	1739.0
15°	1740.2	1748.9	1749.8	1747.5	1750.3	1747.9	1738.8
17.5°	1699.2	1685.2	1656.7	1643.2	1632.6	1616.7	1610.4
20°	1631.4	1590.1	1542.0	1522.8	1500.2	1455.9	1466.5
22.5°	1485.3	1438.0	1390.0	1333.8	1306.9	1265.0	1262.4
25°	1257.6	1176.4	1086.8	1024.4	987.8	945.9	927.7
27.5°	977.8	875.4	802.1	765.0	731.2	698.0	696.6
30°	793.8	716.9	660.1	628.4	607.7	593.7	596.6
32.5°	669.1	616.4	578.2	551.8	536.5	525.9	525.8
35°	547.1	511.0	486.4	475.3	464.3	456.6	457.0
37.5°	468.2	446.5	432.8	420.6	413.7	409.9	407.8
40°	427.7	409.9	399.4	392.1	386.3	381.1	380.1
42.5°	395.8	381.1	370.4	364.8	359.4	355.6	354.7
45°	351.2	339.2	329.6	323.3	320.9	317.5	317.5
47.5°	312.5	300.6	293.1	289.2	285.0	282.8	282.7
50°	286.3	277.1	270.4	268.0	264.6	263.2	262.7
52.5°	262.8	256.0	251.2	249.5	248.1	246.2	246.6
55°	230.9	227.1	225.2	223.8	221.3	218.4	220.4
57.5°	204.1	200.9	195.7	191.1	188.9	186.9	187.7
60°	185.2	178.5	171.7	166.5	165.0	160.7	160.7
62.5°	161.4	151.9	143.6	140.7	139.2	137.2	136.9
65°	124.1	120.3	118.4	116.4	115.5	115.5	114.5
67.5°	102.8	101.3	99.2	98.7	97.7	97.5	97.2
70°	91.0	89.0	88.0	87.6	86.6	87.1	85.7
72.5°	79.4	77.9	77.7	76.4	75.8	75.9	74.8
75°	62.6	62.6	62.0	61.5	60.6	60.1	60.6
77.5°	48.1	48.2	47.3	47.2	47.1	47.2	46.8
80°	38.5	38.9	38.5	38.0	37.5	38.0	37.5
82.5°	30.4	29.7	29.6	29.5	29.4	29.1	29.0
85°	17.3	17.8	17.3	16.9	16.9	16.9	17.3
87.5°	9.4	9.4	9.3	9.4	9.4	9.4	9.0
90°	14.4	14.2	14.1	14.2	14.3	14.4	14.5
92.5°	13.7	13.8	13.8	13.8	13.8	13.9	13.9
95°	27.3	27.3	27.2	27.1	26.9	26.7	26.5
97.5°	45.9	45.9	45.9	45.9	45.9	45.9	45.9
100°	58.9	58.9	58.9	58.8	58.7	58.6	58.5
102.5°	73.1	73.2	73.2	73.1	73.0	73.0	72.9
105°	94.5	94.7	94.8	94.8	94.8	94.8	94.8
107.5°	117.3	117.4	117.3	116.8	116.3	115.9	115.5
110°	132.8	132.8	132.6	132.3	132.1	131.8	131.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	148.2	148.0	147.7	147.5	147.3	147.1	146.9
115°	172.2	172.1	171.9	171.6	171.4	171.1	170.8
117.5°	195.2	195.0	194.7	194.4	194.2	193.9	193.6
120°	210.9	210.9	210.8	210.6	210.3	210.0	209.7
122.5°	226.7	226.4	226.2	226.0	225.8	225.6	225.4
125°	250.2	250.0	249.8	249.7	249.6	249.5	249.4
127.5°	273.1	272.8	272.5	272.1	271.8	271.5	271.3
130°	289.0	288.8	288.5	288.1	287.8	287.4	287.0
132.5°	304.0	303.6	303.2	302.9	302.6	302.3	302.0
135°	326.8	326.7	326.5	326.2	325.9	325.6	325.4
137.5°	348.4	348.4	348.1	347.7	347.3	346.9	346.6
140°	363.0	363.0	362.8	362.4	362.0	361.7	361.3
142.5°	376.2	376.3	376.1	375.7	375.3	374.9	374.6
145°	396.2	396.2	396.1	395.7	395.3	394.9	394.5
147.5°	413.8	414.0	413.9	413.5	413.1	412.7	412.5
150°	424.9	425.2	425.2	424.9	424.6	424.3	424.0
152.5°	436.0	436.4	436.4	436.0	435.6	435.4	435.0
155°	450.3	450.7	450.8	450.5	450.3	450.0	449.7
157.5°	463.4	464.0	464.1	463.6	463.2	462.8	462.3
160°	471.0	471.6	471.6	471.3	470.9	470.5	470.1
162.5°	478.1	478.7	478.8	478.3	477.9	477.4	477.0
165°	487.1	487.8	487.9	487.4	486.9	486.4	486.0
167.5°	494.6	495.2	495.3	494.7	494.3	493.8	493.3
170°	498.6	499.3	499.4	498.8	498.2	497.7	497.1
172.5°	501.7	502.4	502.4	501.8	501.2	500.7	500.1
175°	505.0	505.7	505.8	505.2	504.6	504.1	503.5
177.5°	506.3	506.8	506.8	506.3	506.0	505.5	505.0
180°	506.1	506.1	506.1	506.1	506.1	506.1	506.1

(END OF REPORT)