

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: P333036-840

Luminaire Tested: **S124RDIW-S575D470U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333036-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S575D470U840-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4108.5 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

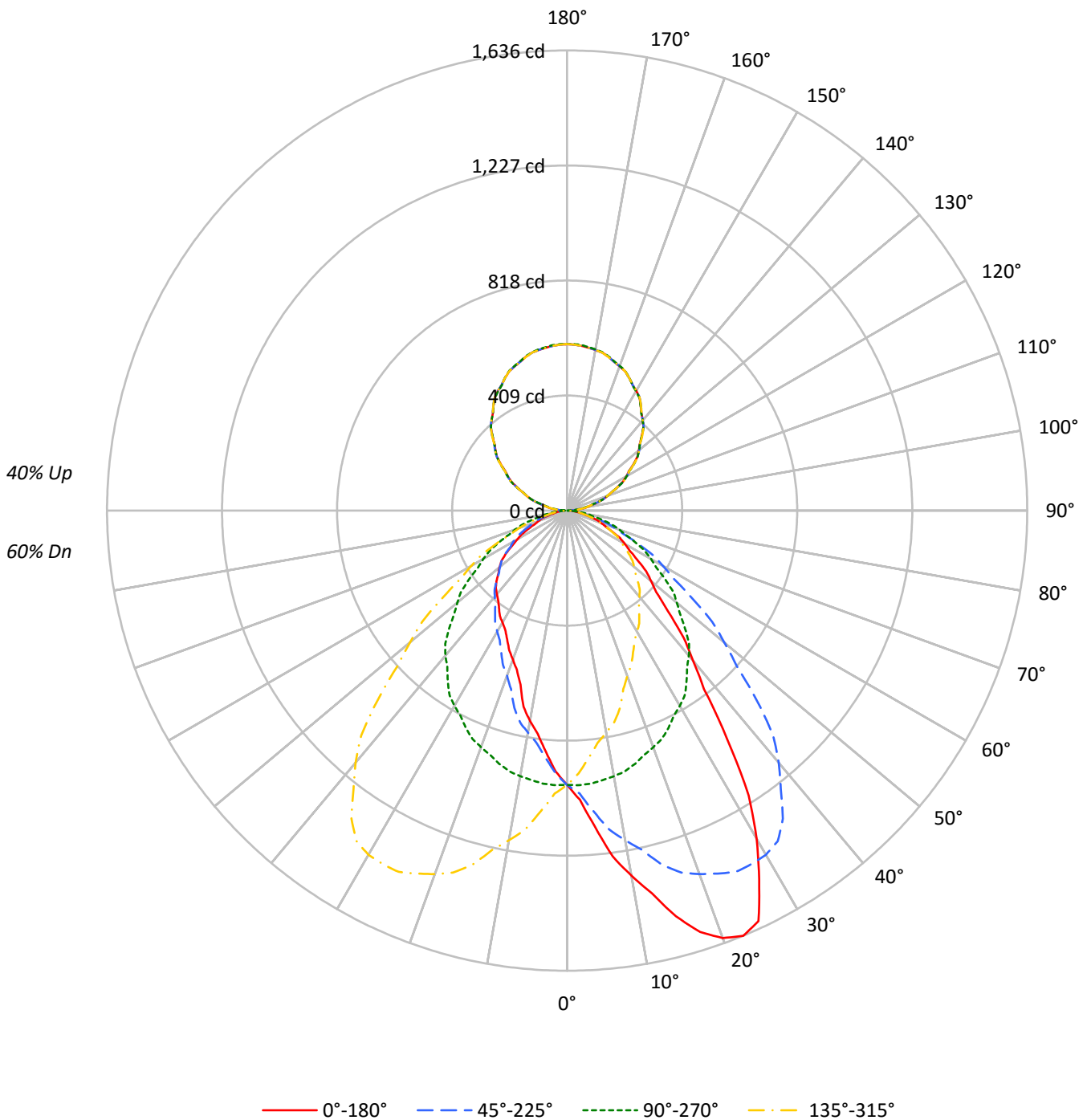
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65	60
1	101	96	93	89	94	90	87	84	79	76	74	68	67	65	59	57	56	52
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	52	50	48	44
3	84	75	68	62	79	71	64	59	62	57	53	54	50	47	47	44	42	38
4	77	67	59	53	72	63	56	51	55	50	46	49	44	41	42	39	36	33
5	71	60	52	46	66	56	49	44	50	44	40	44	39	36	38	35	32	29
6	66	54	46	40	61	51	44	38	45	39	35	40	35	32	35	31	28	26
7	61	49	41	35	57	46	39	34	41	35	31	36	32	28	32	28	25	23
8	57	44	37	31	53	42	35	30	38	32	28	33	29	25	29	26	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	23	21	19
10	49	37	30	25	46	36	29	24	32	26	23	28	24	21	25	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7873	7873	7873	7873
5°	9132	7896	6980	7896
10°	10803	7862	6229	7862
15°	12479	7789	5353	7789
20°	13894	7689	4840	7689
25°	14343	7591	4494	7591
30°	12557	7471	4285	7471
35°	9773	7295	4159	7295
40°	7330	7093	4091	7093
45°	5787	6769	4055	6769
50°	4886	6395	3939	6395
55°	4259	5985	3727	5985
60°	3831	5557	3299	5557
65°	3377	5096	2839	5096
70°	3043	4619	2561	4619
75°	2548	4095	2183	4095
80°	2157	3487	2046	3487
85°	1825	2732	1825	2732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	2.3
10°-20°	285.0	6.9
20°-30°	445.8	10.9
30°-40°	495.6	12.1
40°-50°	439.7	10.7
50°-60°	342.6	8.3
60°-70°	224.3	5.5
70°-80°	110.3	2.7
80°-90°	29.0	0.7
90°-100°	39.0	0.9
100°-110°	115.6	2.8
110°-120°	196.2	4.8
120°-130°	258.7	6.3
130°-140°	290.6	7.1
140°-150°	285.5	6.9
150°-160°	240.2	5.8
160°-170°	159.8	3.9
170°-180°	56.0	1.4
0°-30°	825.3	20.1
0°-40°	1320.9	32.2
0°-60°	2103.3	51.2
0°-90°	2466.9	60.0
90°-120°	350.9	8.5
90°-150°	1185.7	28.9
90°-180°	1642.0	40.0
0°-180°	4108.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	975	975	975	975	975	
5°	1127	974	861	974	1127	114
15°	1493	932	640	932	1493	425
25°	1610	852	504	852	1610	714
35°	992	740	422	740	992	622
45°	507	593	355	593	507	401
55°	303	425	265	425	303	275
65°	177	267	149	267	177	178
75°	82	131	70	131	82	90
85°	20	30	20	30	20	23
90°	14	1	14	1	14	8
95°	36	28	36	28	36	38
105°	112	107	112	107	112	118
115°	198	200	198	200	198	195
125°	288	290	288	290	288	257
135°	375	375	375	375	375	290
145°	456	455	456	455	456	285
155°	521	522	521	522	521	240
165°	566	568	566	568	566	160
175°	588	591	588	591	588	56
180°	592	592	592	592	592	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	1028.6	1031.5	1028.6	1028.3	1025.2	1024.3	1023.0	1019.0	1011.4	1006.9	1007.9
5°	1126.9	1136.7	1131.3	1130.4	1121.8	1113.2	1107.6	1095.1	1081.7	1072.7	1065.2
7.5°	1240.5	1246.2	1242.7	1237.2	1223.2	1215.3	1202.5	1186.0	1162.1	1143.7	1127.0
10°	1317.9	1322.5	1321.0	1310.8	1300.6	1279.7	1268.0	1244.8	1214.5	1190.5	1168.1
12.5°	1393.9	1399.0	1385.1	1385.6	1366.2	1349.8	1331.1	1302.0	1267.0	1236.1	1208.1
15°	1493.1	1486.8	1486.8	1478.9	1457.3	1434.5	1415.3	1384.6	1340.6	1303.7	1264.9
17.5°	1570.7	1573.0	1569.7	1551.2	1534.2	1510.7	1475.3	1439.6	1398.7	1349.1	1309.4
20°	1617.3	1617.3	1613.8	1601.1	1579.1	1554.0	1515.9	1477.0	1425.1	1375.2	1330.4
22.5°	1636.1	1637.4	1633.3	1622.9	1603.1	1578.5	1546.1	1506.5	1453.1	1396.9	1341.4
25°	1610.2	1617.6	1618.4	1615.7	1609.8	1594.9	1567.0	1526.5	1478.5	1417.6	1358.0
27.5°	1478.3	1487.7	1496.0	1509.5	1527.6	1537.1	1538.3	1517.7	1475.9	1417.3	1357.3
30°	1347.0	1354.7	1380.3	1413.7	1439.7	1463.2	1483.7	1489.1	1465.6	1412.9	1349.7
32.5°	1201.0	1211.7	1237.3	1273.2	1316.5	1356.3	1402.3	1425.6	1425.0	1393.4	1334.9
35°	991.7	999.6	1023.2	1060.9	1112.8	1172.0	1244.8	1301.3	1339.9	1337.1	1301.3
37.5°	799.8	808.7	832.5	863.8	914.1	987.5	1057.9	1135.9	1207.1	1247.1	1235.1
40°	695.5	695.9	719.0	751.2	798.4	862.4	939.1	1025.5	1104.9	1169.7	1182.2
42.5°	613.1	613.2	628.5	663.3	697.2	757.5	830.6	916.5	1009.4	1084.2	1117.5
45°	506.9	510.4	523.0	543.8	570.5	621.6	680.1	759.9	864.0	952.8	1008.2
47.5°	429.2	434.4	442.4	459.4	480.7	514.7	563.1	634.8	719.5	817.2	896.1
50°	389.0	389.8	400.0	409.4	427.9	455.0	497.5	557.1	635.0	728.8	816.5
52.5°	354.5	354.3	360.4	372.3	387.4	408.5	442.7	497.2	566.1	650.3	740.7
55°	302.6	304.5	309.2	318.6	330.0	345.0	372.1	412.9	467.2	539.1	621.2
57.5°	263.1	264.1	267.8	271.9	282.3	293.2	313.5	341.8	387.6	446.5	523.0
60°	237.3	237.7	238.9	244.8	253.1	263.3	277.0	300.9	339.5	393.3	453.8
62.5°	212.2	212.9	214.7	219.0	225.4	232.5	246.8	266.1	298.0	344.0	398.5
65°	176.8	177.2	180.0	181.6	186.6	192.9	203.5	216.5	238.5	277.0	318.3
67.5°	147.7	147.7	147.8	150.1	153.6	157.7	164.1	174.5	191.1	214.7	251.1
70°	128.9	128.9	129.7	130.9	132.8	136.3	139.9	147.7	160.0	179.2	207.0
72.5°	111.3	111.6	112.4	112.6	113.6	116.5	119.2	124.1	133.2	147.7	170.3
75°	81.7	82.9	84.8	86.4	88.4	88.1	90.8	93.9	96.6	105.3	118.3
77.5°	60.8	60.2	60.4	61.8	62.0	62.4	64.3	66.8	68.9	72.9	77.6
80°	46.4	46.4	47.6	48.0	47.6	48.0	49.9	51.1	51.9	53.4	57.8
82.5°	35.0	35.6	35.2	35.6	36.0	36.4	38.0	38.2	39.0	39.6	41.4
85°	19.7	20.0	20.4	19.7	19.7	19.7	20.4	20.8	21.6	21.2	22.0
87.5°	9.7	9.3	9.6	9.5	9.8	9.4	9.6	10.1	9.4	9.6	9.4
90°	13.7	13.5	13.3	13.1	12.9	12.5	11.9	11.3	10.7	10.1	9.3
92.5°	20.3	20.2	20.1	20.0	19.8	19.6	19.2	18.9	18.5	18.1	17.6
95°	36.2	36.2	36.2	36.2	36.2	36.0	35.6	35.3	35.0	34.7	34.0
97.5°	56.7	56.7	56.7	56.7	56.7	56.5	56.1	55.7	55.3	55.0	54.1
100°	70.9	70.9	70.9	70.9	70.9	70.8	70.6	70.4	70.2	70.0	69.1
102.5°	87.1	86.9	86.8	86.7	86.7	86.5	86.2	85.9	85.6	85.4	84.5
105°	111.7	111.4	111.1	110.8	110.5	110.2	109.9	109.6	109.2	108.9	108.5
107.5°	135.6	135.6	135.7	135.7	135.7	135.6	135.3	135.0	134.7	134.4	134.4
110°	152.8	152.5	152.2	151.9	151.6	151.6	151.8	152.0	152.2	152.4	152.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	170.4	170.4	170.3	170.3	170.2	170.2	170.2	170.3	170.3	170.4	170.5
115°	197.7	197.8	197.9	198.0	198.1	198.2	198.3	198.4	198.5	198.6	198.8
117.5°	223.7	223.9	224.1	224.3	224.5	224.8	225.1	225.5	225.8	226.1	226.3
120°	243.5	243.3	243.1	242.9	242.7	242.8	243.3	243.8	244.3	244.8	245.1
122.5°	259.9	260.2	260.6	261.1	261.4	261.8	262.1	262.5	262.8	263.2	263.3
125°	288.3	288.5	288.7	288.9	289.1	289.3	289.5	289.7	289.9	290.1	290.2
127.5°	314.6	314.8	314.9	315.1	315.2	315.4	315.6	315.8	316.0	316.2	316.4
130°	331.7	332.1	332.5	333.0	333.4	333.7	333.9	334.1	334.3	334.5	334.5
132.5°	350.1	350.2	350.4	350.5	350.7	350.9	351.1	351.3	351.5	351.7	351.8
135°	375.3	375.6	375.9	376.2	376.5	376.7	376.9	377.1	377.3	377.5	377.5
137.5°	401.7	401.6	401.5	401.5	401.4	401.5	401.8	402.0	402.3	402.6	402.4
140°	417.8	417.9	418.0	418.1	418.2	418.3	418.4	418.5	418.6	418.7	418.7
142.5°	433.9	433.9	433.9	433.9	433.9	434.0	434.0	434.0	434.0	434.0	434.1
145°	455.8	456.1	456.4	456.7	457.0	457.2	457.3	457.4	457.5	457.6	457.5
147.5°	478.0	478.1	478.2	478.3	478.4	478.5	478.5	478.6	478.7	478.8	478.9
150°	491.5	491.6	491.7	491.8	491.9	491.9	491.9	491.9	491.9	491.9	491.9
152.5°	503.9	504.2	504.4	504.7	504.9	505.0	504.7	504.5	504.2	504.0	503.9
155°	521.2	521.6	522.0	522.4	522.8	522.8	522.4	522.0	521.6	521.2	521.3
157.5°	536.6	537.0	537.3	537.8	538.1	538.1	537.8	537.5	537.1	536.8	536.8
160°	545.4	545.9	546.5	547.0	547.5	547.6	547.3	547.0	546.7	546.4	546.5
162.5°	554.6	555.1	555.6	556.1	556.6	556.6	556.1	555.5	555.0	554.4	554.5
165°	566.5	566.9	567.3	567.7	568.2	568.0	567.4	566.8	566.2	565.6	565.8
167.5°	575.0	575.6	576.3	576.9	577.5	577.5	576.9	576.3	575.7	575.1	575.1
170°	579.8	580.5	581.2	581.9	582.6	582.7	582.1	581.5	580.9	580.3	580.2
172.5°	583.8	584.5	585.2	585.9	586.6	586.6	586.0	585.3	584.6	583.9	583.9
175°	588.0	588.8	589.5	590.2	590.9	590.9	590.2	589.5	588.8	588.0	588.1
177.5°	590.3	590.9	591.6	592.2	592.8	592.9	592.3	591.8	591.2	590.6	590.6
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	1004.8	1000.4	998.2	993.1	987.1	984.0	981.2	977.1	971.8	966.1	962.0
5°	1055.8	1046.3	1034.5	1020.4	1007.8	995.6	985.0	974.4	962.3	949.7	937.2
7.5°	1108.1	1089.5	1069.5	1046.3	1023.8	1003.3	984.4	966.3	945.9	927.6	910.9
10°	1144.6	1119.4	1091.6	1062.1	1032.6	1007.0	981.9	959.1	933.9	911.6	892.7
12.5°	1174.2	1144.6	1111.1	1074.3	1038.8	1007.9	979.1	949.4	920.8	896.5	871.3
15°	1223.1	1182.7	1137.5	1093.5	1047.5	1005.5	966.5	932.0	899.4	865.3	841.2
17.5°	1256.9	1208.8	1154.0	1101.1	1046.7	997.1	952.3	911.1	873.4	838.6	810.0
20°	1277.0	1224.0	1163.1	1102.9	1042.0	989.0	940.7	895.0	856.2	818.5	789.0
22.5°	1288.3	1229.6	1163.1	1100.0	1037.0	979.6	926.6	879.1	836.7	799.0	766.4
25°	1291.9	1229.0	1161.0	1088.7	1019.7	958.8	903.7	852.2	805.1	767.4	732.8
27.5°	1286.9	1212.8	1143.3	1069.0	997.7	933.5	875.8	821.6	774.5	734.0	698.5
30°	1279.3	1200.0	1125.3	1048.3	976.0	914.3	853.4	801.5	752.5	710.4	674.7
32.5°	1263.0	1184.3	1104.0	1025.0	951.8	888.3	830.5	778.3	730.1	687.1	649.1
35°	1230.6	1150.8	1063.6	982.7	910.8	844.8	790.5	740.2	694.3	648.3	608.2
37.5°	1187.9	1106.5	1019.7	931.1	859.1	796.8	747.0	699.8	654.9	613.0	568.6
40°	1147.7	1073.5	983.9	895.9	822.0	761.8	715.9	673.1	627.9	586.2	541.8
42.5°	1099.0	1035.7	945.2	856.9	784.0	726.0	683.2	641.4	600.3	559.9	513.5
45°	1017.6	969.8	884.8	800.0	726.5	669.1	629.9	592.9	556.7	518.3	474.6
47.5°	924.4	892.0	818.8	731.8	663.9	612.3	574.3	544.1	513.5	475.0	436.8
50°	859.7	838.9	768.2	688.8	624.0	576.4	537.6	509.2	483.7	446.8	412.5
52.5°	790.5	779.5	719.7	643.8	581.2	534.6	501.4	475.9	450.1	419.4	387.4
55°	685.3	691.2	640.5	574.8	515.9	476.7	446.4	425.2	403.1	377.2	352.4
57.5°	577.5	599.2	565.1	507.5	452.2	416.0	393.1	375.3	356.9	335.3	314.2
60°	513.1	531.2	512.0	461.3	412.9	379.2	358.0	344.2	325.7	306.1	289.9
62.5°	450.3	469.6	458.2	417.3	372.4	343.4	324.7	311.8	298.1	280.9	264.2
65°	371.3	383.8	378.4	350.1	318.3	293.5	276.2	266.8	254.2	241.7	226.7
67.5°	284.4	308.7	305.5	290.4	263.0	243.6	232.3	224.0	212.5	203.2	193.0
70°	233.8	256.2	255.8	243.6	228.6	210.6	202.8	195.7	185.4	176.4	168.1
72.5°	191.4	211.9	214.9	205.6	195.4	181.7	174.1	169.3	159.4	153.2	146.4
75°	134.0	149.0	152.9	152.9	148.1	141.1	134.4	131.3	124.1	118.7	114.7
77.5°	87.9	97.3	103.4	104.8	105.5	103.2	97.7	95.4	90.1	88.1	84.3
80°	62.1	68.4	75.4	77.8	79.8	79.0	76.6	75.0	70.0	68.0	66.4
82.5°	42.9	46.4	52.2	57.4	56.9	58.9	56.9	55.5	51.7	51.0	49.4
85°	22.4	22.8	23.5	27.1	29.1	29.9	30.3	29.5	28.3	28.3	25.5
87.5°	9.2	8.8	9.2	9.0	9.1	10.2	10.9	11.0	10.2	9.5	8.8
90°	8.5	7.7	6.8	5.9	4.7	3.6	2.5	1.4	2.5	3.6	4.7
92.5°	17.0	16.5	15.9	14.9	13.6	12.3	11.1	9.8	11.1	12.3	13.6
95°	33.3	32.6	31.9	31.1	30.2	29.3	28.4	27.5	28.4	29.3	30.2
97.5°	53.3	52.5	51.7	50.9	50.2	49.4	48.7	48.0	48.7	49.4	50.2
100°	68.2	67.3	66.3	65.7	65.2	64.8	64.4	64.0	64.4	64.8	65.2
102.5°	83.7	82.9	82.1	81.6	81.4	81.2	81.1	80.9	81.1	81.2	81.4
105°	108.1	107.7	107.2	107.0	106.9	106.8	106.7	106.6	106.7	106.8	106.9
107.5°	134.3	134.3	134.2	134.1	134.0	133.9	133.7	133.6	133.7	133.9	134.0
110°	152.6	152.7	152.8	152.7	152.5	152.3	152.1	151.9	152.1	152.3	152.5



TEST NUMBER: P333036-840

CATALOG NUMBER: S124RDIW-S575D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	170.7	170.9	171.1	171.2	171.1	171.1	171.0	171.0	171.0	171.1	171.1
115°	199.0	199.2	199.4	199.5	199.5	199.5	199.5	199.5	199.5	199.5	199.5
117.5°	226.4	226.6	226.7	226.7	226.7	226.6	226.5	226.4	226.5	226.6	226.7
120°	245.4	245.7	246.0	246.0	245.6	245.2	244.8	244.4	244.8	245.2	245.6
122.5°	263.4	263.6	263.7	263.7	263.5	263.4	263.2	263.1	263.2	263.4	263.5
125°	290.3	290.4	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5	290.5
127.5°	316.5	316.7	316.9	316.8	316.5	316.2	315.9	315.6	315.9	316.2	316.5
130°	334.5	334.5	334.5	334.4	334.1	333.8	333.5	333.2	333.5	333.8	334.1
132.5°	351.8	351.9	352.0	351.9	351.7	351.5	351.3	351.0	351.3	351.5	351.7
135°	377.5	377.5	377.5	377.2	376.6	376.0	375.4	374.8	375.4	376.0	376.6
137.5°	402.3	402.1	401.9	401.7	401.4	401.1	400.9	400.6	400.9	401.1	401.4
140°	418.7	418.7	418.7	418.6	418.4	418.2	418.0	417.8	418.0	418.2	418.4
142.5°	434.2	434.3	434.4	434.3	434.1	433.9	433.7	433.5	433.7	433.9	434.1
145°	457.4	457.3	457.2	457.0	456.6	456.2	455.8	455.3	455.8	456.2	456.6
147.5°	478.9	479.0	479.1	478.9	478.4	477.9	477.4	477.0	477.4	477.9	478.4
150°	491.9	491.9	491.9	491.7	491.3	490.9	490.5	490.1	490.5	490.9	491.3
152.5°	503.8	503.7	503.7	503.5	503.3	503.0	502.8	502.5	502.8	503.0	503.3
155°	521.4	521.5	521.6	521.7	521.7	521.7	521.7	521.7	521.7	521.7	521.7
157.5°	536.9	536.9	536.9	537.0	537.2	537.5	537.6	537.8	537.6	537.5	537.2
160°	546.6	546.7	546.8	546.9	547.0	547.1	547.2	547.3	547.2	547.1	547.0
162.5°	554.6	554.7	554.8	555.0	555.3	555.5	555.8	556.1	555.8	555.5	555.3
165°	566.0	566.2	566.4	566.6	566.9	567.2	567.5	567.8	567.5	567.2	566.9
167.5°	575.1	575.0	575.0	575.2	575.7	576.1	576.5	576.9	576.5	576.1	575.7
170°	580.1	580.0	579.9	580.1	580.6	581.1	581.6	582.1	581.6	581.1	580.6
172.5°	583.9	583.8	583.8	584.0	584.5	584.9	585.3	585.7	585.3	584.9	584.5
175°	588.2	588.3	588.4	588.8	589.3	589.8	590.3	590.8	590.3	589.8	589.3
177.5°	590.6	590.6	590.6	590.8	591.2	591.6	592.0	592.4	592.0	591.6	591.2
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



TEST NUMBER: P333036-840

CATALOG NUMBER: S124RDIW-S575D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	957.7	954.5	950.4	945.6	940.0	935.0	932.8	934.6	935.6	933.1	932.8
5°	928.5	918.7	910.8	899.0	889.6	881.7	876.2	873.8	874.6	868.4	866.8
7.5°	895.6	884.0	871.2	857.2	844.1	832.6	826.6	823.2	816.6	813.7	808.9
10°	874.6	858.9	846.4	829.8	815.0	801.1	794.5	789.0	782.3	779.1	772.4
12.5°	852.9	834.8	820.9	803.8	788.5	771.9	765.6	755.4	744.9	738.3	729.7
15°	822.3	800.4	783.5	763.1	745.0	726.1	709.2	690.3	683.3	668.3	659.7
17.5°	786.6	764.3	743.4	716.0	688.1	664.7	646.6	628.6	617.7	608.2	603.8
20°	763.1	742.7	713.6	681.8	650.7	624.7	610.2	598.4	586.6	580.0	575.2
22.5°	740.7	714.7	680.9	646.5	615.5	595.2	582.9	570.8	561.2	554.8	548.6
25°	703.4	669.1	633.4	594.1	572.9	555.2	541.8	532.0	526.1	517.9	514.7
27.5°	664.9	623.5	584.0	557.6	535.5	519.4	507.8	500.4	492.9	487.6	483.5
30°	635.3	593.3	558.0	532.8	510.4	497.1	487.6	479.0	473.1	468.8	465.6
32.5°	606.1	564.1	534.3	507.4	489.7	476.7	466.6	460.1	455.4	449.9	448.0
35°	563.8	526.5	500.6	476.3	458.2	446.4	438.5	431.8	427.9	426.4	425.2
37.5°	523.2	492.6	464.7	444.7	428.7	419.4	410.1	406.9	404.1	401.3	402.6
40°	497.5	468.8	444.0	422.8	409.8	399.6	394.0	390.2	387.8	387.8	387.8
42.5°	475.1	447.1	422.9	403.9	390.9	382.3	376.2	372.8	372.1	371.7	373.7
45°	440.5	414.5	390.2	374.5	363.5	354.8	351.2	348.5	348.5	350.1	350.5
47.5°	406.2	381.8	362.2	344.7	334.6	329.2	326.1	324.7	324.9	326.4	328.2
50°	385.1	361.1	341.8	326.1	316.7	311.5	308.8	308.0	308.8	308.8	311.5
52.5°	362.1	340.6	321.7	308.5	297.8	293.1	291.5	290.4	290.9	292.2	293.4
55°	328.5	309.2	291.1	278.6	270.7	267.6	264.1	264.5	263.7	264.5	264.5
57.5°	294.8	277.5	260.6	250.6	243.8	239.2	235.4	236.4	235.3	235.1	234.5
60°	273.1	254.2	240.9	231.9	224.0	220.0	216.5	217.3	216.1	215.3	213.8
62.5°	249.5	233.8	221.1	212.4	206.0	201.5	197.9	197.1	194.4	191.8	188.2
65°	215.3	202.4	191.0	182.7	176.8	173.3	170.6	168.1	162.3	156.0	152.9
67.5°	182.1	172.7	162.1	155.1	150.4	145.7	140.5	136.4	130.9	127.4	125.5
70°	160.7	151.7	142.6	135.9	130.9	126.5	120.6	117.9	113.9	112.4	110.4
72.5°	140.3	131.9	123.4	117.4	112.0	108.6	104.0	101.2	99.5	98.9	96.8
75°	109.3	102.6	96.2	90.8	86.4	84.1	82.1	80.2	79.4	75.8	73.8
77.5°	79.7	75.2	71.4	67.5	64.3	62.8	59.0	56.8	55.4	53.7	53.3
80°	62.1	59.0	55.0	52.6	48.4	46.8	45.1	44.8	44.4	44.0	43.6
82.5°	46.7	43.5	39.6	38.2	37.1	36.1	35.1	34.7	34.3	34.5	34.5
85°	23.5	22.0	22.0	21.6	21.2	20.8	20.4	20.4	20.0	20.4	20.0
87.5°	9.0	8.9	9.1	8.6	9.1	9.3	9.1	9.2	9.6	9.1	9.2
90°	5.9	6.8	7.7	8.5	9.3	10.1	10.7	11.3	11.9	12.5	12.9
92.5°	14.9	15.9	16.5	17.0	17.6	18.1	18.5	18.9	19.2	19.6	19.8
95°	31.1	31.9	32.6	33.3	34.0	34.7	35.0	35.3	35.6	36.0	36.2
97.5°	50.9	51.7	52.5	53.3	54.1	55.0	55.3	55.7	56.1	56.5	56.7
100°	65.7	66.3	67.3	68.2	69.1	70.0	70.2	70.4	70.6	70.8	70.9
102.5°	81.6	82.1	82.9	83.7	84.5	85.4	85.6	85.9	86.2	86.5	86.7
105°	107.0	107.2	107.7	108.1	108.5	108.9	109.2	109.6	109.9	110.2	110.5
107.5°	134.1	134.2	134.3	134.3	134.4	134.4	134.7	135.0	135.3	135.6	135.7
110°	152.7	152.8	152.7	152.6	152.5	152.4	152.2	152.0	151.8	151.6	151.6



TEST NUMBER: P333036-840

CATALOG NUMBER: S124RDIW-S575D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	171.2	171.1	170.9	170.7	170.5	170.4	170.3	170.3	170.2	170.2	170.2
115°	199.5	199.4	199.2	199.0	198.8	198.6	198.5	198.4	198.3	198.2	198.1
117.5°	226.7	226.7	226.6	226.4	226.3	226.1	225.8	225.5	225.1	224.8	224.5
120°	246.0	246.0	245.7	245.4	245.1	244.8	244.3	243.8	243.3	242.8	242.7
122.5°	263.7	263.7	263.6	263.4	263.3	263.2	262.8	262.5	262.1	261.8	261.4
125°	290.5	290.5	290.4	290.3	290.2	290.1	289.9	289.7	289.5	289.3	289.1
127.5°	316.8	316.9	316.7	316.5	316.4	316.2	316.0	315.8	315.6	315.4	315.2
130°	334.4	334.5	334.5	334.5	334.5	334.5	334.3	334.1	333.9	333.7	333.4
132.5°	351.9	352.0	351.9	351.8	351.8	351.7	351.5	351.3	351.1	350.9	350.7
135°	377.2	377.5	377.5	377.5	377.5	377.5	377.3	377.1	376.9	376.7	376.5
137.5°	401.7	401.9	402.1	402.3	402.4	402.6	402.3	402.0	401.8	401.5	401.4
140°	418.6	418.7	418.7	418.7	418.7	418.7	418.6	418.5	418.4	418.3	418.2
142.5°	434.3	434.4	434.3	434.2	434.1	434.0	434.0	434.0	434.0	434.0	433.9
145°	457.0	457.2	457.3	457.4	457.5	457.6	457.5	457.4	457.3	457.2	457.0
147.5°	478.9	479.1	479.0	478.9	478.9	478.8	478.7	478.6	478.5	478.5	478.4
150°	491.7	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
152.5°	503.5	503.7	503.7	503.8	503.9	504.0	504.2	504.5	504.7	505.0	504.9
155°	521.7	521.6	521.5	521.4	521.3	521.2	521.6	522.0	522.4	522.8	522.8
157.5°	537.0	536.9	536.9	536.9	536.8	536.8	537.1	537.5	537.8	538.1	538.1
160°	546.9	546.8	546.7	546.6	546.5	546.4	546.7	547.0	547.3	547.6	547.5
162.5°	555.0	554.8	554.7	554.6	554.5	554.4	555.0	555.5	556.1	556.6	556.6
165°	566.6	566.4	566.2	566.0	565.8	565.6	566.2	566.8	567.4	568.0	568.2
167.5°	575.2	575.0	575.0	575.1	575.1	575.1	575.7	576.3	576.9	577.5	577.5
170°	580.1	579.9	580.0	580.1	580.2	580.3	580.9	581.5	582.1	582.7	582.6
172.5°	584.0	583.8	583.8	583.9	583.9	583.9	584.6	585.3	586.0	586.6	586.6
175°	588.8	588.4	588.3	588.2	588.1	588.0	588.8	589.5	590.2	590.9	590.9
177.5°	590.8	590.6	590.6	590.6	590.6	590.6	591.2	591.8	592.3	592.9	592.8
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



TEST NUMBER: P333036-840

CATALOG NUMBER: S124RDIW-S575D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	930.9	931.5	929.4	928.7	929.4	931.5	930.9	932.8	933.1	935.6	934.6
5°	863.6	862.8	860.9	861.3	860.9	862.8	863.6	866.8	868.4	874.6	873.8
7.5°	806.1	803.0	804.0	800.7	804.0	803.0	806.1	808.9	813.7	816.6	823.2
10°	770.9	766.6	763.1	759.9	763.1	766.6	770.9	772.4	779.1	782.3	789.0
12.5°	722.9	719.1	714.3	715.3	714.3	719.1	722.9	729.7	738.3	744.9	755.4
15°	654.6	648.7	639.2	640.5	639.2	648.7	654.6	659.7	668.3	683.3	690.3
17.5°	596.8	596.9	592.6	593.6	592.6	596.9	596.8	603.8	608.2	617.7	628.6
20°	566.9	564.2	564.6	563.4	564.6	564.2	566.9	575.2	580.0	586.6	598.4
22.5°	546.2	542.9	540.1	537.7	540.1	542.9	546.2	548.6	554.8	561.2	570.8
25°	511.2	508.9	505.3	504.5	505.3	508.9	511.2	514.7	517.9	526.1	532.0
27.5°	480.4	479.9	478.5	476.7	478.5	479.9	480.4	483.5	487.6	492.9	500.4
30°	462.4	461.7	460.9	459.7	460.9	461.7	462.4	465.6	468.8	473.1	479.0
32.5°	446.5	446.0	445.1	445.2	445.1	446.0	446.5	448.0	449.9	455.4	460.1
35°	423.5	423.1	422.4	422.0	422.4	423.1	423.5	425.2	426.4	427.9	431.8
37.5°	402.2	403.2	402.7	402.6	402.7	403.2	402.2	402.6	401.3	404.1	406.9
40°	387.4	387.8	388.6	388.2	388.6	387.8	387.4	387.8	387.8	387.8	390.2
42.5°	375.2	375.3	376.4	375.0	376.4	375.3	375.2	373.7	371.7	372.1	372.8
45°	353.3	355.6	355.2	355.2	355.2	355.6	353.3	350.5	350.1	348.5	348.5
47.5°	329.2	331.3	331.8	331.7	331.8	331.3	329.2	328.2	326.4	324.9	324.7
50°	313.6	312.8	314.0	313.6	314.0	312.8	313.6	311.5	308.8	308.8	308.0
52.5°	294.4	294.6	294.5	294.1	294.5	294.6	294.4	293.4	292.2	290.9	290.4
55°	264.8	265.2	264.5	264.8	264.5	265.2	264.8	264.5	264.5	263.7	264.5
57.5°	232.8	230.9	231.7	230.8	231.7	230.9	232.8	234.5	235.1	235.3	236.4
60°	209.8	206.7	205.9	204.3	205.9	206.7	209.8	213.8	215.3	216.1	217.3
62.5°	184.0	181.9	179.2	180.5	179.2	181.9	184.0	188.2	191.8	194.4	197.1
65°	149.7	148.1	146.9	148.6	146.9	148.1	149.7	152.9	156.0	162.3	168.1
67.5°	123.9	123.1	123.1	122.3	123.1	123.1	123.9	125.5	127.4	130.9	136.4
70°	110.4	109.3	109.3	108.5	109.3	109.3	110.4	110.4	112.4	113.9	117.9
72.5°	96.5	95.4	95.7	95.2	95.7	95.4	96.5	96.8	98.9	99.5	101.2
75°	71.5	69.6	69.6	70.0	69.6	69.6	71.5	73.8	75.8	79.4	80.2
77.5°	53.3	52.9	53.5	52.8	53.5	52.9	53.3	53.3	53.7	55.4	56.8
80°	43.6	43.2	42.8	44.0	42.8	43.2	43.6	43.6	44.0	44.4	44.8
82.5°	33.8	33.8	33.7	35.2	33.7	33.8	33.8	34.5	34.5	34.3	34.7
85°	20.4	19.7	20.4	19.7	20.4	19.7	20.4	20.0	20.4	20.0	20.4
87.5°	9.9	9.6	9.3	9.7	9.3	9.6	9.9	9.2	9.1	9.6	9.2
90°	13.1	13.3	13.5	13.7	13.5	13.3	13.1	12.9	12.5	11.9	11.3
92.5°	20.0	20.1	20.2	20.3	20.2	20.1	20.0	19.8	19.6	19.2	18.9
95°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.0	35.6	35.3
97.5°	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.5	56.1	55.7
100°	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.8	70.6	70.4
102.5°	86.7	86.8	86.9	87.1	86.9	86.8	86.7	86.7	86.5	86.2	85.9
105°	110.8	111.1	111.4	111.7	111.4	111.1	110.8	110.5	110.2	109.9	109.6
107.5°	135.7	135.7	135.6	135.6	135.6	135.7	135.7	135.7	135.6	135.3	135.0
110°	151.9	152.2	152.5	152.8	152.5	152.2	151.9	151.6	151.6	151.8	152.0



TEST NUMBER: P333036-840

CATALOG NUMBER: S124RDIW-S575D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	170.3	170.3	170.4	170.4	170.4	170.3	170.3	170.2	170.2	170.2	170.3
115°	198.0	197.9	197.8	197.7	197.8	197.9	198.0	198.1	198.2	198.3	198.4
117.5°	224.3	224.1	223.9	223.7	223.9	224.1	224.3	224.5	224.8	225.1	225.5
120°	242.9	243.1	243.3	243.5	243.3	243.1	242.9	242.7	242.8	243.3	243.8
122.5°	261.1	260.6	260.2	259.9	260.2	260.6	261.1	261.4	261.8	262.1	262.5
125°	288.9	288.7	288.5	288.3	288.5	288.7	288.9	289.1	289.3	289.5	289.7
127.5°	315.1	314.9	314.8	314.6	314.8	314.9	315.1	315.2	315.4	315.6	315.8
130°	333.0	332.5	332.1	331.7	332.1	332.5	333.0	333.4	333.7	333.9	334.1
132.5°	350.5	350.4	350.2	350.1	350.2	350.4	350.5	350.7	350.9	351.1	351.3
135°	376.2	375.9	375.6	375.3	375.6	375.9	376.2	376.5	376.7	376.9	377.1
137.5°	401.5	401.5	401.6	401.7	401.6	401.5	401.5	401.4	401.5	401.8	402.0
140°	418.1	418.0	417.9	417.8	417.9	418.0	418.1	418.2	418.3	418.4	418.5
142.5°	433.9	433.9	433.9	433.9	433.9	433.9	433.9	433.9	434.0	434.0	434.0
145°	456.7	456.4	456.1	455.8	456.1	456.4	456.7	457.0	457.2	457.3	457.4
147.5°	478.3	478.2	478.1	478.0	478.1	478.2	478.3	478.4	478.5	478.5	478.6
150°	491.8	491.7	491.6	491.5	491.6	491.7	491.8	491.9	491.9	491.9	491.9
152.5°	504.7	504.4	504.2	503.9	504.2	504.4	504.7	504.9	505.0	504.7	504.5
155°	522.4	522.0	521.6	521.2	521.6	522.0	522.4	522.8	522.8	522.4	522.0
157.5°	537.8	537.3	537.0	536.6	537.0	537.3	537.8	538.1	538.1	537.8	537.5
160°	547.0	546.5	545.9	545.4	545.9	546.5	547.0	547.5	547.6	547.3	547.0
162.5°	556.1	555.6	555.1	554.6	555.1	555.6	556.1	556.6	556.6	556.1	555.5
165°	567.7	567.3	566.9	566.5	566.9	567.3	567.7	568.2	568.0	567.4	566.8
167.5°	576.9	576.3	575.6	575.0	575.6	576.3	576.9	577.5	577.5	576.9	576.3
170°	581.9	581.2	580.5	579.8	580.5	581.2	581.9	582.6	582.7	582.1	581.5
172.5°	585.9	585.2	584.5	583.8	584.5	585.2	585.9	586.6	586.6	586.0	585.3
175°	590.2	589.5	588.8	588.0	588.8	589.5	590.2	590.9	590.9	590.2	589.5
177.5°	592.2	591.6	590.9	590.3	590.9	591.6	592.2	592.8	592.9	592.3	591.8
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



TEST NUMBER: P333036-840

CATALOG NUMBER: S124RDIW-S575D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	932.8	935.0	940.0	945.6	950.4	954.5	957.7	962.0	966.1	971.8	977.1
5°	876.2	881.7	889.6	899.0	910.8	918.7	928.5	937.2	949.7	962.3	974.4
7.5°	826.6	832.6	844.1	857.2	871.2	884.0	895.6	910.9	927.6	945.9	966.3
10°	794.5	801.1	815.0	829.8	846.4	858.9	874.6	892.7	911.6	933.9	959.1
12.5°	765.6	771.9	788.5	803.8	820.9	834.8	852.9	871.3	896.5	920.8	949.4
15°	709.2	726.1	745.0	763.1	783.5	800.4	822.3	841.2	865.3	899.4	932.0
17.5°	646.6	664.7	688.1	716.0	743.4	764.3	786.6	810.0	838.6	873.4	911.1
20°	610.2	624.7	650.7	681.8	713.6	742.7	763.1	789.0	818.5	856.2	895.0
22.5°	582.9	595.2	615.5	646.5	680.9	714.7	740.7	766.4	799.0	836.7	879.1
25°	541.8	555.2	572.9	594.1	633.4	669.1	703.4	732.8	767.4	805.1	852.2
27.5°	507.8	519.4	535.5	557.6	584.0	623.5	664.9	698.5	734.0	774.5	821.6
30°	487.6	497.1	510.4	532.8	558.0	593.3	635.3	674.7	710.4	752.5	801.5
32.5°	466.6	476.7	489.7	507.4	534.3	564.1	606.1	649.1	687.1	730.1	778.3
35°	438.5	446.4	458.2	476.3	500.6	526.5	563.8	608.2	648.3	694.3	740.2
37.5°	410.1	419.4	428.7	444.7	464.7	492.6	523.2	568.6	613.0	654.9	699.8
40°	394.0	399.6	409.8	422.8	444.0	468.8	497.5	541.8	586.2	627.9	673.1
42.5°	376.2	382.3	390.9	403.9	422.9	447.1	475.1	513.5	559.9	600.3	641.4
45°	351.2	354.8	363.5	374.5	390.2	414.5	440.5	474.6	518.3	556.7	592.9
47.5°	326.1	329.2	334.6	344.7	362.2	381.8	406.2	436.8	475.0	513.5	544.1
50°	308.8	311.5	316.7	326.1	341.8	361.1	385.1	412.5	446.8	483.7	509.2
52.5°	291.5	293.1	297.8	308.5	321.7	340.6	362.1	387.4	419.4	450.1	475.9
55°	264.1	267.6	270.7	278.6	291.1	309.2	328.5	352.4	377.2	403.1	425.2
57.5°	235.4	239.2	243.8	250.6	260.6	277.5	294.8	314.2	335.3	356.9	375.3
60°	216.5	220.0	224.0	231.9	240.9	254.2	273.1	289.9	306.1	325.7	344.2
62.5°	197.9	201.5	206.0	212.4	221.1	233.8	249.5	264.2	280.9	298.1	311.8
65°	170.6	173.3	176.8	182.7	191.0	202.4	215.3	226.7	241.7	254.2	266.8
67.5°	140.5	145.7	150.4	155.1	162.1	172.7	182.1	193.0	203.2	212.5	224.0
70°	120.6	126.5	130.9	135.9	142.6	151.7	160.7	168.1	176.4	185.4	195.7
72.5°	104.0	108.6	112.0	117.4	123.4	131.9	140.3	146.4	153.2	159.4	169.3
75°	82.1	84.1	86.4	90.8	96.2	102.6	109.3	114.7	118.7	124.1	131.3
77.5°	59.0	62.8	64.3	67.5	71.4	75.2	79.7	84.3	88.1	90.1	95.4
80°	45.1	46.8	48.4	52.6	55.0	59.0	62.1	66.4	68.0	70.0	75.0
82.5°	35.1	36.1	37.1	38.2	39.6	43.5	46.7	49.4	51.0	51.7	55.5
85°	20.4	20.8	21.2	21.6	22.0	22.0	23.5	25.5	28.3	28.3	29.5
87.5°	9.1	9.3	9.1	8.6	9.1	8.9	9.0	8.8	9.5	10.2	11.0
90°	10.7	10.1	9.3	8.5	7.7	6.8	5.9	4.7	3.6	2.5	1.4
92.5°	18.5	18.1	17.6	17.0	16.5	15.9	14.9	13.6	12.3	11.1	9.8
95°	35.0	34.7	34.0	33.3	32.6	31.9	31.1	30.2	29.3	28.4	27.5
97.5°	55.3	55.0	54.1	53.3	52.5	51.7	50.9	50.2	49.4	48.7	48.0
100°	70.2	70.0	69.1	68.2	67.3	66.3	65.7	65.2	64.8	64.4	64.0
102.5°	85.6	85.4	84.5	83.7	82.9	82.1	81.6	81.4	81.2	81.1	80.9
105°	109.2	108.9	108.5	108.1	107.7	107.2	107.0	106.9	106.8	106.7	106.6
107.5°	134.7	134.4	134.4	134.3	134.3	134.2	134.1	134.0	133.9	133.7	133.6
110°	152.2	152.4	152.5	152.6	152.7	152.8	152.7	152.5	152.3	152.1	151.9



TEST NUMBER: P333036-840

CATALOG NUMBER: S124RDIW-S575D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	170.3	170.4	170.5	170.7	170.9	171.1	171.2	171.1	171.1	171.0	171.0
115°	198.5	198.6	198.8	199.0	199.2	199.4	199.5	199.5	199.5	199.5	199.5
117.5°	225.8	226.1	226.3	226.4	226.6	226.7	226.7	226.7	226.6	226.5	226.4
120°	244.3	244.8	245.1	245.4	245.7	246.0	246.0	245.6	245.2	244.8	244.4
122.5°	262.8	263.2	263.3	263.4	263.6	263.7	263.7	263.5	263.4	263.2	263.1
125°	289.9	290.1	290.2	290.3	290.4	290.5	290.5	290.5	290.5	290.5	290.5
127.5°	316.0	316.2	316.4	316.5	316.7	316.9	316.8	316.5	316.2	315.9	315.6
130°	334.3	334.5	334.5	334.5	334.5	334.5	334.4	334.1	333.8	333.5	333.2
132.5°	351.5	351.7	351.8	351.8	351.9	352.0	351.9	351.7	351.5	351.3	351.0
135°	377.3	377.5	377.5	377.5	377.5	377.5	377.2	376.6	376.0	375.4	374.8
137.5°	402.3	402.6	402.4	402.3	402.1	401.9	401.7	401.4	401.1	400.9	400.6
140°	418.6	418.7	418.7	418.7	418.7	418.7	418.6	418.4	418.2	418.0	417.8
142.5°	434.0	434.0	434.1	434.2	434.3	434.4	434.3	434.1	433.9	433.7	433.5
145°	457.5	457.6	457.5	457.4	457.3	457.2	457.0	456.6	456.2	455.8	455.3
147.5°	478.7	478.8	478.9	478.9	479.0	479.1	478.9	478.4	477.9	477.4	477.0
150°	491.9	491.9	491.9	491.9	491.9	491.9	491.7	491.3	490.9	490.5	490.1
152.5°	504.2	504.0	503.9	503.8	503.7	503.7	503.5	503.3	503.0	502.8	502.5
155°	521.6	521.2	521.3	521.4	521.5	521.6	521.7	521.7	521.7	521.7	521.7
157.5°	537.1	536.8	536.8	536.9	536.9	536.9	537.0	537.2	537.5	537.6	537.8
160°	546.7	546.4	546.5	546.6	546.7	546.8	546.9	547.0	547.1	547.2	547.3
162.5°	555.0	554.4	554.5	554.6	554.7	554.8	555.0	555.3	555.5	555.8	556.1
165°	566.2	565.6	565.8	566.0	566.2	566.4	566.6	566.9	567.2	567.5	567.8
167.5°	575.7	575.1	575.1	575.1	575.0	575.0	575.2	575.7	576.1	576.5	576.9
170°	580.9	580.3	580.2	580.1	580.0	579.9	580.1	580.6	581.1	581.6	582.1
172.5°	584.6	583.9	583.9	583.9	583.8	583.8	584.0	584.5	584.9	585.3	585.7
175°	588.8	588.0	588.1	588.2	588.3	588.4	588.8	589.3	589.8	590.3	590.8
177.5°	591.2	590.6	590.6	590.6	590.6	590.6	590.8	591.2	591.6	592.0	592.4
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



TEST NUMBER: P333036-840

CATALOG NUMBER: S124RDIW-S575D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	981.2	984.0	987.1	993.1	998.2	1000.4	1004.8	1007.9	1006.9	1011.4	1019.0
5°	985.0	995.6	1007.8	1020.4	1034.5	1046.3	1055.8	1065.2	1072.7	1081.7	1095.1
7.5°	984.4	1003.3	1023.8	1046.3	1069.5	1089.5	1108.1	1127.0	1143.7	1162.1	1186.0
10°	981.9	1007.0	1032.6	1062.1	1091.6	1119.4	1144.6	1168.1	1190.5	1214.5	1244.8
12.5°	979.1	1007.9	1038.8	1074.3	1111.1	1144.6	1174.2	1208.1	1236.1	1267.0	1302.0
15°	966.5	1005.5	1047.5	1093.5	1137.5	1182.7	1223.1	1264.9	1303.7	1340.6	1384.6
17.5°	952.3	997.1	1046.7	1101.1	1154.0	1208.8	1256.9	1309.4	1349.1	1398.7	1439.6
20°	940.7	989.0	1042.0	1102.9	1163.1	1224.0	1277.0	1330.4	1375.2	1425.1	1477.0
22.5°	926.6	979.6	1037.0	1100.0	1163.1	1229.6	1288.3	1341.4	1396.9	1453.1	1506.5
25°	903.7	958.8	1019.7	1088.7	1161.0	1229.0	1291.9	1358.0	1417.6	1478.5	1526.5
27.5°	875.8	933.5	997.7	1069.0	1143.3	1212.8	1286.9	1357.3	1417.3	1475.9	1517.7
30°	853.4	914.3	976.0	1048.3	1125.3	1200.0	1279.3	1349.7	1412.9	1465.6	1489.1
32.5°	830.5	888.3	951.8	1025.0	1104.0	1184.3	1263.0	1334.9	1393.4	1425.0	1425.6
35°	790.5	844.8	910.8	982.7	1063.6	1150.8	1230.6	1301.3	1337.1	1339.9	1301.3
37.5°	747.0	796.8	859.1	931.1	1019.7	1106.5	1187.9	1235.1	1247.1	1207.1	1135.9
40°	715.9	761.8	822.0	895.9	983.9	1073.5	1147.7	1182.2	1169.7	1104.9	1025.5
42.5°	683.2	726.0	784.0	856.9	945.2	1035.7	1099.0	1117.5	1084.2	1009.4	916.5
45°	629.9	669.1	726.5	800.0	884.8	969.8	1017.6	1008.2	952.8	864.0	759.9
47.5°	574.3	612.3	663.9	731.8	818.8	892.0	924.4	896.1	817.2	719.5	634.8
50°	537.6	576.4	624.0	688.8	768.2	838.9	859.7	816.5	728.8	635.0	557.1
52.5°	501.4	534.6	581.2	643.8	719.7	779.5	790.5	740.7	650.3	566.1	497.2
55°	446.4	476.7	515.9	574.8	640.5	691.2	685.3	621.2	539.1	467.2	412.9
57.5°	393.1	416.0	452.2	507.5	565.1	599.2	577.5	523.0	446.5	387.6	341.8
60°	358.0	379.2	412.9	461.3	512.0	531.2	513.1	453.8	393.3	339.5	300.9
62.5°	324.7	343.4	372.4	417.3	458.2	469.6	450.3	398.5	344.0	298.0	266.1
65°	276.2	293.5	318.3	350.1	378.4	383.8	371.3	318.3	277.0	238.5	216.5
67.5°	232.3	243.6	263.0	290.4	305.5	308.7	284.4	251.1	214.7	191.1	174.5
70°	202.8	210.6	228.6	243.6	255.8	256.2	233.8	207.0	179.2	160.0	147.7
72.5°	174.1	181.7	195.4	205.6	214.9	211.9	191.4	170.3	147.7	133.2	124.1
75°	134.4	141.1	148.1	152.9	152.9	149.0	134.0	118.3	105.3	96.6	93.9
77.5°	97.7	103.2	105.5	104.8	103.4	97.3	87.9	77.6	72.9	68.9	66.8
80°	76.6	79.0	79.8	77.8	75.4	68.4	62.1	57.8	53.4	51.9	51.1
82.5°	56.9	58.9	56.9	57.4	52.2	46.4	42.9	41.4	39.6	39.0	38.2
85°	30.3	29.9	29.1	27.1	23.5	22.8	22.4	22.0	21.2	21.6	20.8
87.5°	10.9	10.2	9.1	9.0	9.2	8.8	9.2	9.4	9.6	9.4	10.1
90°	2.5	3.6	4.7	5.9	6.8	7.7	8.5	9.3	10.1	10.7	11.3
92.5°	11.1	12.3	13.6	14.9	15.9	16.5	17.0	17.6	18.1	18.5	18.9
95°	28.4	29.3	30.2	31.1	31.9	32.6	33.3	34.0	34.7	35.0	35.3
97.5°	48.7	49.4	50.2	50.9	51.7	52.5	53.3	54.1	55.0	55.3	55.7
100°	64.4	64.8	65.2	65.7	66.3	67.3	68.2	69.1	70.0	70.2	70.4
102.5°	81.1	81.2	81.4	81.6	82.1	82.9	83.7	84.5	85.4	85.6	85.9
105°	106.7	106.8	106.9	107.0	107.2	107.7	108.1	108.5	108.9	109.2	109.6
107.5°	133.7	133.9	134.0	134.1	134.2	134.3	134.3	134.4	134.4	134.7	135.0
110°	152.1	152.3	152.5	152.7	152.8	152.7	152.6	152.5	152.4	152.2	152.0



TEST NUMBER: P333036-840

CATALOG NUMBER: S124RDIW-S575D470U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	171.0	171.1	171.1	171.2	171.1	170.9	170.7	170.5	170.4	170.3	170.3
115°	199.5	199.5	199.5	199.5	199.4	199.2	199.0	198.8	198.6	198.5	198.4
117.5°	226.5	226.6	226.7	226.7	226.7	226.6	226.4	226.3	226.1	225.8	225.5
120°	244.8	245.2	245.6	246.0	246.0	245.7	245.4	245.1	244.8	244.3	243.8
122.5°	263.2	263.4	263.5	263.7	263.7	263.6	263.4	263.3	263.2	262.8	262.5
125°	290.5	290.5	290.5	290.5	290.5	290.4	290.3	290.2	290.1	289.9	289.7
127.5°	315.9	316.2	316.5	316.8	316.9	316.7	316.5	316.4	316.2	316.0	315.8
130°	333.5	333.8	334.1	334.4	334.5	334.5	334.5	334.5	334.5	334.3	334.1
132.5°	351.3	351.5	351.7	351.9	352.0	351.9	351.8	351.8	351.7	351.5	351.3
135°	375.4	376.0	376.6	377.2	377.5	377.5	377.5	377.5	377.5	377.3	377.1
137.5°	400.9	401.1	401.4	401.7	401.9	402.1	402.3	402.4	402.6	402.3	402.0
140°	418.0	418.2	418.4	418.6	418.7	418.7	418.7	418.7	418.7	418.6	418.5
142.5°	433.7	433.9	434.1	434.3	434.4	434.3	434.2	434.1	434.0	434.0	434.0
145°	455.8	456.2	456.6	457.0	457.2	457.3	457.4	457.5	457.6	457.5	457.4
147.5°	477.4	477.9	478.4	478.9	479.1	479.0	478.9	478.9	478.8	478.7	478.6
150°	490.5	490.9	491.3	491.7	491.9	491.9	491.9	491.9	491.9	491.9	491.9
152.5°	502.8	503.0	503.3	503.5	503.7	503.7	503.8	503.9	504.0	504.2	504.5
155°	521.7	521.7	521.7	521.7	521.6	521.5	521.4	521.3	521.2	521.6	522.0
157.5°	537.6	537.5	537.2	537.0	536.9	536.9	536.9	536.8	536.8	537.1	537.5
160°	547.2	547.1	547.0	546.9	546.8	546.7	546.6	546.5	546.4	546.7	547.0
162.5°	555.8	555.5	555.3	555.0	554.8	554.7	554.6	554.5	554.4	555.0	555.5
165°	567.5	567.2	566.9	566.6	566.4	566.2	566.0	565.8	565.6	566.2	566.8
167.5°	576.5	576.1	575.7	575.2	575.0	575.0	575.1	575.1	575.1	575.7	576.3
170°	581.6	581.1	580.6	580.1	579.9	580.0	580.1	580.2	580.3	580.9	581.5
172.5°	585.3	584.9	584.5	584.0	583.8	583.8	583.9	583.9	583.9	584.6	585.3
175°	590.3	589.8	589.3	588.8	588.4	588.3	588.2	588.1	588.0	588.8	589.5
177.5°	592.0	591.6	591.2	590.8	590.6	590.6	590.6	590.6	590.6	591.2	591.8
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7	591.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	1023.0	1024.3	1025.2	1028.3	1028.6	1031.5	1028.6
5°	1107.6	1113.2	1121.8	1130.4	1131.3	1136.7	1126.9
7.5°	1202.5	1215.3	1223.2	1237.2	1242.7	1246.2	1240.5
10°	1268.0	1279.7	1300.6	1310.8	1321.0	1322.5	1317.9
12.5°	1331.1	1349.8	1366.2	1385.6	1385.1	1399.0	1393.9
15°	1415.3	1434.5	1457.3	1478.9	1486.8	1486.8	1493.1
17.5°	1475.3	1510.7	1534.2	1551.2	1569.7	1573.0	1570.7
20°	1515.9	1554.0	1579.1	1601.1	1613.8	1617.3	1617.3
22.5°	1546.1	1578.5	1603.1	1622.9	1633.3	1637.4	1636.1
25°	1567.0	1594.9	1609.8	1615.7	1618.4	1617.6	1610.2
27.5°	1538.3	1537.1	1527.6	1509.5	1496.0	1487.7	1478.3
30°	1483.7	1463.2	1439.7	1413.7	1380.3	1354.7	1347.0
32.5°	1402.3	1356.3	1316.5	1273.2	1237.3	1211.7	1201.0
35°	1244.8	1172.0	1112.8	1060.9	1023.2	999.6	991.7
37.5°	1057.9	987.5	914.1	863.8	832.5	808.7	799.8
40°	939.1	862.4	798.4	751.2	719.0	695.9	695.5
42.5°	830.6	757.5	697.2	663.3	628.5	613.2	613.1
45°	680.1	621.6	570.5	543.8	523.0	510.4	506.9
47.5°	563.1	514.7	480.7	459.4	442.4	434.4	429.2
50°	497.5	455.0	427.9	409.4	400.0	389.8	389.0
52.5°	442.7	408.5	387.4	372.3	360.4	354.3	354.5
55°	372.1	345.0	330.0	318.6	309.2	304.5	302.6
57.5°	313.5	293.2	282.3	271.9	267.8	264.1	263.1
60°	277.0	263.3	253.1	244.8	238.9	237.7	237.3
62.5°	246.8	232.5	225.4	219.0	214.7	212.9	212.2
65°	203.5	192.9	186.6	181.6	180.0	177.2	176.8
67.5°	164.1	157.7	153.6	150.1	147.8	147.7	147.7
70°	139.9	136.3	132.8	130.9	129.7	128.9	128.9
72.5°	119.2	116.5	113.6	112.6	112.4	111.6	111.3
75°	90.8	88.1	88.4	86.4	84.8	82.9	81.7
77.5°	64.3	62.4	62.0	61.8	60.4	60.2	60.8
80°	49.9	48.0	47.6	48.0	47.6	46.4	46.4
82.5°	38.0	36.4	36.0	35.6	35.2	35.6	35.0
85°	20.4	19.7	19.7	19.7	20.4	20.0	19.7
87.5°	9.6	9.4	9.8	9.5	9.6	9.3	9.7
90°	11.9	12.5	12.9	13.1	13.3	13.5	13.7
92.5°	19.2	19.6	19.8	20.0	20.1	20.2	20.3
95°	35.6	36.0	36.2	36.2	36.2	36.2	36.2
97.5°	56.1	56.5	56.7	56.7	56.7	56.7	56.7
100°	70.6	70.8	70.9	70.9	70.9	70.9	70.9
102.5°	86.2	86.5	86.7	86.7	86.8	86.9	87.1
105°	109.9	110.2	110.5	110.8	111.1	111.4	111.7
107.5°	135.3	135.6	135.7	135.7	135.7	135.6	135.6
110°	151.8	151.6	151.6	151.9	152.2	152.5	152.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	170.2	170.2	170.2	170.3	170.3	170.4	170.4
115°	198.3	198.2	198.1	198.0	197.9	197.8	197.7
117.5°	225.1	224.8	224.5	224.3	224.1	223.9	223.7
120°	243.3	242.8	242.7	242.9	243.1	243.3	243.5
122.5°	262.1	261.8	261.4	261.1	260.6	260.2	259.9
125°	289.5	289.3	289.1	288.9	288.7	288.5	288.3
127.5°	315.6	315.4	315.2	315.1	314.9	314.8	314.6
130°	333.9	333.7	333.4	333.0	332.5	332.1	331.7
132.5°	351.1	350.9	350.7	350.5	350.4	350.2	350.1
135°	376.9	376.7	376.5	376.2	375.9	375.6	375.3
137.5°	401.8	401.5	401.4	401.5	401.5	401.6	401.7
140°	418.4	418.3	418.2	418.1	418.0	417.9	417.8
142.5°	434.0	434.0	433.9	433.9	433.9	433.9	433.9
145°	457.3	457.2	457.0	456.7	456.4	456.1	455.8
147.5°	478.5	478.5	478.4	478.3	478.2	478.1	478.0
150°	491.9	491.9	491.9	491.8	491.7	491.6	491.5
152.5°	504.7	505.0	504.9	504.7	504.4	504.2	503.9
155°	522.4	522.8	522.8	522.4	522.0	521.6	521.2
157.5°	537.8	538.1	538.1	537.8	537.3	537.0	536.6
160°	547.3	547.6	547.5	547.0	546.5	545.9	545.4
162.5°	556.1	556.6	556.6	556.1	555.6	555.1	554.6
165°	567.4	568.0	568.2	567.7	567.3	566.9	566.5
167.5°	576.9	577.5	577.5	576.9	576.3	575.6	575.0
170°	582.1	582.7	582.6	581.9	581.2	580.5	579.8
172.5°	586.0	586.6	586.6	585.9	585.2	584.5	583.8
175°	590.2	590.9	590.9	590.2	589.5	588.8	588.0
177.5°	592.3	592.9	592.8	592.2	591.6	590.9	590.3
180°	591.7	591.7	591.7	591.7	591.7	591.7	591.7

(END OF REPORT)