

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: P333370-840

Luminaire Tested: **S125DIW-S610D470U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333370-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIW-S610D470U840-4F0-1E-UDD-A  
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 610 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 470 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4444.2 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: General Diffuse

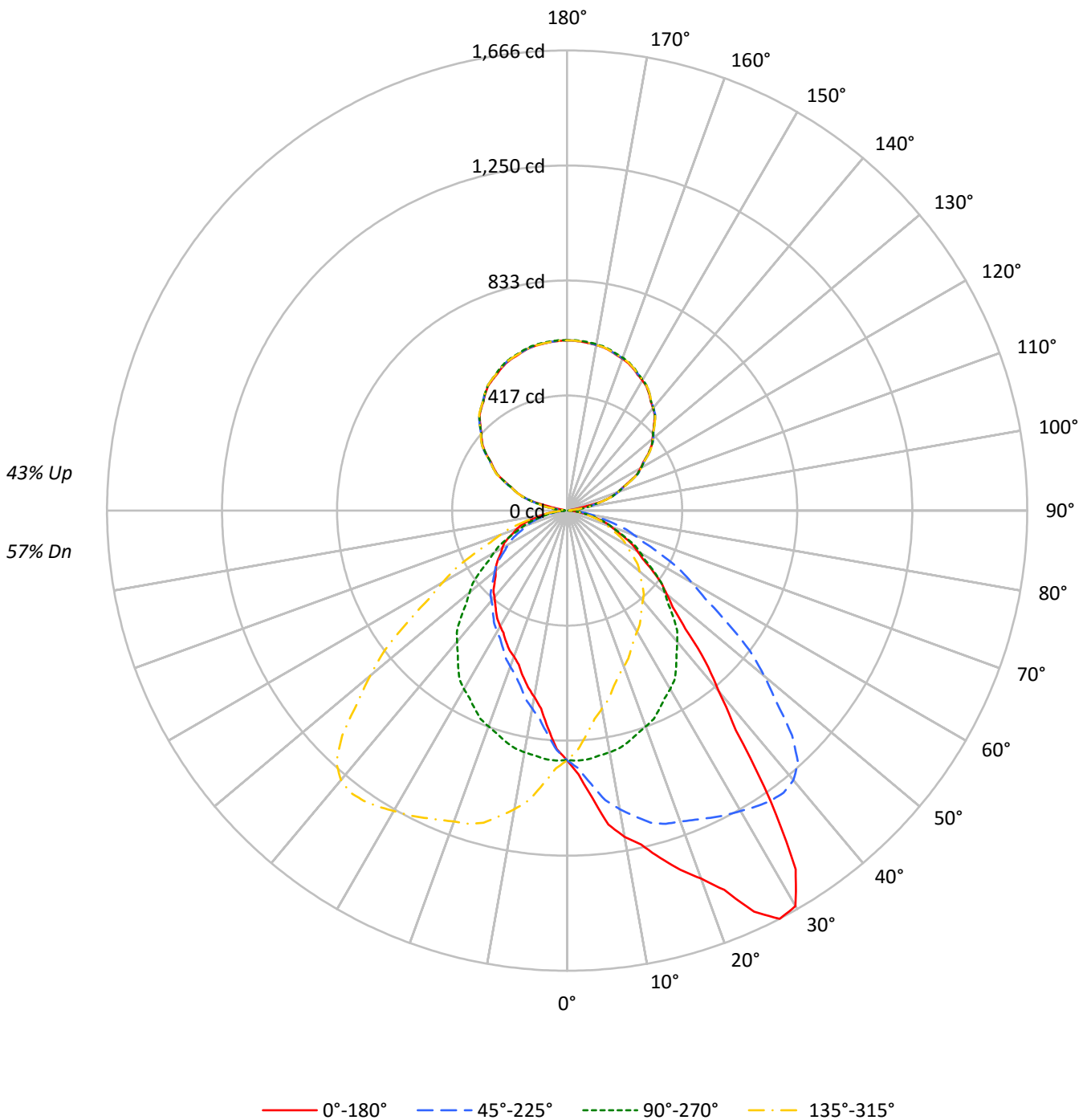
Input Watts (W): 30.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57
1	100	95	92	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	84	78	72	85	78	73	68	68	64	60	58	55	53	50	47	46	41
3	83	74	66	61	77	69	63	57	60	55	51	52	48	45	44	41	39	35
4	76	65	57	51	71	61	54	49	53	48	44	46	42	39	40	36	34	30
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	26
6	65	52	44	38	60	49	42	37	43	37	33	38	33	29	32	29	26	23
7	60	47	39	34	56	45	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	41	33	29	36	30	26	31	27	23	27	24	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5837	5837	5837	5837
5°	6760	5857	5128	5857
10°	7864	5827	4494	5827
15°	8705	5784	4145	5784
20°	9745	5716	3865	5716
25°	11416	5640	3729	5640
30°	12331	5565	3610	5565
35°	10138	5423	3533	5423
40°	7206	5227	3447	5227
45°	5536	4961	3399	4961
50°	4725	4633	3392	4633
55°	4208	4310	3422	4310
60°	3796	3959	3509	3959
65°	3506	3605	3599	3605
70°	3186	3238	3652	3238
75°	2815	2852	3618	2852
80°	2369	2325	3310	2325
85°	1875	1675	2675	1675



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.0	2.0
10°-20°	259.1	5.8
20°-30°	420.7	9.5
30°-40°	513.1	11.5
40°-50°	466.8	10.5
50°-60°	371.8	8.4
60°-70°	259.0	5.8
70°-80°	138.1	3.1
80°-90°	36.1	0.8
90°-100°	22.4	0.5
100°-110°	138.0	3.1
110°-120°	250.3	5.6
120°-130°	321.3	7.2
130°-140°	345.6	7.8
140°-150°	324.4	7.3
150°-160°	262.4	5.9
160°-170°	169.7	3.8
170°-180°	58.5	1.3
0°-30°	766.7	17.3
0°-40°	1279.9	28.8
0°-60°	2118.5	47.7
0°-90°	2551.7	57.4
90°-120°	410.7	9.2
90°-150°	1401.9	31.5
90°-180°	1893.0	42.6
0°-180°	4444.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	904	904	904	904	904	
5°	1043	903	791	903	1043	105
15°	1302	865	620	865	1302	373
25°	1602	791	523	791	1602	732
35°	1286	688	448	688	1286	787
45°	606	543	372	543	606	485
55°	374	383	304	383	374	337
65°	229	236	236	236	229	228
75°	113	114	145	114	113	121
85°	25	23	36	23	25	29
90°	11	0	11	0	11	6
95°	10	26	10	26	10	8
105°	136	134	136	134	136	123
115°	250	252	250	252	250	248
125°	359	359	359	359	359	319
135°	446	447	446	447	446	344
145°	517	519	517	519	517	323
155°	567	571	567	571	567	261
165°	599	603	599	603	599	169
175°	614	616	614	616	614	58
180°	616	616	616	616	616	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8
2.5°	956.0	954.7	953.5	951.1	952.9	947.7	945.2	941.0	935.7	933.9	931.7
5°	1042.7	1044.6	1046.5	1038.4	1039.3	1033.9	1021.6	1011.6	1003.6	993.2	985.9
7.5°	1147.0	1142.5	1142.2	1136.9	1127.9	1120.7	1107.8	1091.4	1075.5	1057.4	1042.5
10°	1199.2	1199.6	1196.2	1190.0	1180.4	1173.5	1156.6	1140.5	1121.0	1097.9	1081.5
12.5°	1238.5	1240.1	1235.8	1227.5	1222.7	1207.3	1194.1	1174.9	1151.7	1133.3	1108.1
15°	1302.0	1297.8	1294.7	1284.3	1276.3	1260.2	1239.1	1219.1	1193.9	1170.4	1147.0
17.5°	1363.2	1366.7	1360.9	1351.4	1326.5	1307.6	1279.3	1252.0	1220.4	1189.1	1161.1
20°	1417.9	1421.0	1412.1	1395.6	1365.7	1346.9	1309.7	1274.3	1238.0	1197.7	1167.0
22.5°	1486.0	1483.6	1471.7	1446.5	1420.7	1385.8	1345.6	1302.6	1257.0	1211.4	1170.6
25°	1602.0	1585.9	1578.6	1547.5	1513.4	1462.4	1407.1	1344.2	1287.5	1227.2	1175.1
27.5°	1666.3	1661.2	1653.1	1631.4	1595.6	1541.1	1475.9	1399.3	1319.1	1243.1	1174.8
30°	1653.5	1654.2	1655.0	1648.0	1625.1	1584.0	1519.1	1436.6	1341.5	1256.0	1177.0
32.5°	1539.2	1553.2	1566.6	1582.4	1588.8	1580.9	1540.3	1465.8	1368.0	1270.7	1175.7
35°	1285.9	1290.1	1333.5	1376.4	1434.7	1480.1	1510.4	1477.3	1394.8	1283.2	1174.3
37.5°	1002.6	1023.4	1053.4	1102.0	1186.1	1261.4	1358.4	1402.9	1376.2	1287.3	1171.5
40°	854.7	873.9	893.4	942.9	1013.9	1105.2	1215.3	1309.3	1331.2	1274.3	1162.4
42.5°	740.5	755.8	777.5	814.7	873.9	954.8	1060.1	1182.9	1258.4	1237.0	1143.1
45°	606.1	615.7	632.6	662.2	705.1	768.4	861.2	995.5	1112.5	1151.2	1097.1
47.5°	518.8	518.8	531.9	552.3	583.3	637.0	705.7	810.9	935.8	1028.3	1024.0
50°	470.3	468.4	478.8	496.4	521.0	556.6	622.3	706.3	826.4	931.1	960.2
52.5°	428.6	428.8	435.2	448.2	468.8	499.3	548.3	624.0	726.6	834.0	889.0
55°	373.7	372.1	379.4	388.2	403.2	423.1	458.5	516.3	599.6	705.5	776.8
57.5°	323.4	327.5	330.4	336.6	349.0	362.3	392.1	434.6	500.7	591.6	667.0
60°	293.9	298.1	300.3	306.5	316.5	328.0	351.0	385.6	441.2	519.5	594.2
62.5°	267.4	270.7	271.6	277.0	285.2	296.4	314.5	343.5	387.5	455.9	529.2
65°	229.4	229.4	231.0	236.7	240.5	250.5	264.3	285.4	320.7	374.1	436.6
67.5°	192.7	194.6	194.2	196.7	200.3	208.0	217.9	235.3	261.5	300.3	350.4
70°	168.7	170.4	170.0	171.9	175.7	180.7	188.7	205.2	224.0	257.4	300.3
72.5°	147.3	147.9	146.9	149.5	151.8	156.1	165.1	173.9	191.5	219.6	255.0
75°	112.8	113.5	114.3	115.8	118.2	120.5	125.0	133.9	145.4	166.5	189.1
77.5°	84.5	83.1	84.9	84.7	86.0	87.8	91.8	96.5	105.9	119.3	136.8
80°	63.7	64.0	64.0	64.4	66.3	67.6	71.0	74.4	81.7	91.7	103.9
82.5°	46.5	47.5	46.9	47.6	49.2	50.0	51.9	54.7	59.0	66.9	75.7
85°	25.3	23.4	24.1	24.9	24.9	25.3	26.9	28.0	30.3	33.3	36.9
87.5°	9.6	10.1	10.4	10.3	10.5	10.5	11.6	11.5	12.3	13.1	14.2
90°	11.0	10.7	10.4	10.1	9.8	9.3	8.8	8.3	7.8	7.3	6.6
92.5°	10.2	10.1	10.0	9.8	9.7	9.3	8.8	8.3	7.8	7.3	6.7
95°	9.6	9.6	9.6	9.6	9.6	9.3	8.8	8.3	7.8	7.3	11.2
97.5°	9.6	9.6	9.6	9.6	9.6	11.0	13.9	16.8	19.6	22.5	30.1
100°	9.6	10.0	10.4	10.8	11.2	19.0	34.1	49.3	64.3	79.5	79.1
102.5°	57.5	64.3	71.3	78.2	85.1	90.0	92.8	95.7	98.6	101.4	101.2
105°	135.7	135.8	135.9	136.0	136.1	136.1	136.1	136.1	136.1	136.1	136.1
107.5°	171.1	171.4	171.7	172.0	172.3	172.4	172.4	172.4	172.4	172.3	172.1
110°	195.5	195.4	195.3	195.2	195.1	195.2	195.5	195.8	196.1	196.4	196.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	217.4	217.6	217.7	217.9	218.0	218.3	218.6	219.0	219.4	219.8	219.7
115°	250.3	251.0	251.6	252.2	252.8	253.3	253.7	254.1	254.5	254.9	254.8
117.5°	285.5	285.7	286.0	286.2	286.5	286.9	287.4	287.9	288.5	289.0	288.6
120°	307.0	307.5	308.0	308.5	309.0	309.4	309.6	309.8	310.0	310.2	309.9
122.5°	327.5	328.1	328.6	329.2	329.8	330.2	330.4	330.6	330.8	331.0	330.9
125°	358.6	358.9	359.2	359.5	359.8	360.2	360.6	361.0	361.4	361.8	361.8
127.5°	384.9	385.6	386.4	387.1	387.9	388.4	388.6	388.8	389.0	389.2	389.3
130°	403.8	404.3	404.9	405.4	405.9	406.3	406.6	406.9	407.2	407.5	407.4
132.5°	421.4	421.9	422.4	422.9	423.4	423.7	423.7	423.8	423.9	423.9	424.1
135°	445.5	446.1	446.7	447.3	447.9	448.3	448.5	448.7	448.9	449.1	449.3
137.5°	469.6	470.1	470.6	471.1	471.7	471.9	471.9	471.8	471.8	471.7	471.9
140°	483.8	484.4	485.0	485.6	486.3	486.5	486.3	486.0	485.8	485.6	485.7
142.5°	497.4	498.0	498.6	499.2	499.8	500.1	500.0	500.0	499.9	499.9	499.8
145°	517.2	517.8	518.4	519.0	519.6	519.9	519.8	519.7	519.6	519.5	519.5
147.5°	533.5	534.2	535.0	535.7	536.4	536.7	536.6	536.5	536.3	536.2	536.1
150°	544.1	544.9	545.7	546.5	547.3	547.6	547.4	547.2	547.0	546.8	546.6
152.5°	554.0	554.7	555.4	556.1	556.9	557.1	556.9	556.7	556.5	556.3	556.1
155°	566.9	567.7	568.6	569.4	570.2	570.5	570.2	569.9	569.6	569.3	569.1
157.5°	577.8	578.7	579.5	580.3	581.1	581.3	581.0	580.7	580.4	580.1	580.0
160°	584.8	585.6	586.4	587.2	588.0	588.2	587.8	587.4	587.0	586.6	586.5
162.5°	591.0	591.9	592.8	593.7	594.6	594.7	594.2	593.6	593.0	592.5	592.4
165°	599.4	600.2	601.0	601.9	602.7	602.8	602.2	601.6	600.9	600.3	600.2
167.5°	605.2	606.1	607.0	607.9	608.9	608.9	608.2	607.5	606.8	606.0	605.9
170°	608.5	609.5	610.4	611.3	612.2	612.3	611.5	610.6	609.8	608.9	608.8
172.5°	610.8	611.7	612.6	613.5	614.4	614.5	613.7	613.0	612.3	611.6	611.4
175°	613.6	614.5	615.4	616.3	617.2	617.2	616.4	615.6	614.8	614.0	613.9
177.5°	615.2	615.8	616.5	617.1	617.8	617.8	617.2	616.7	616.1	615.6	615.5
180°	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8
2.5°	929.9	927.8	925.3	921.0	915.7	913.0	908.8	905.9	900.4	895.9	890.9
5°	977.0	967.1	958.0	946.0	933.0	924.5	914.5	903.4	891.9	880.0	867.0
7.5°	1025.9	1008.4	989.2	968.5	948.4	929.8	912.0	894.6	878.4	858.7	842.0
10°	1058.8	1036.5	1012.8	984.7	957.6	933.7	909.6	888.5	867.0	843.9	823.6
12.5°	1091.7	1062.0	1028.4	997.6	964.9	936.2	907.8	880.8	853.8	828.3	804.7
15°	1114.8	1088.7	1057.6	1013.9	977.0	937.6	900.0	865.1	832.4	804.1	774.2
17.5°	1130.0	1096.5	1063.1	1021.2	972.9	928.7	886.1	846.2	809.4	773.4	744.6
20°	1132.9	1098.3	1063.4	1022.4	972.9	922.2	879.7	831.7	792.1	755.0	719.6
22.5°	1132.0	1092.8	1054.8	1012.5	964.3	917.7	866.2	817.3	774.4	737.8	700.9
25°	1123.3	1081.5	1033.9	991.3	943.7	894.2	842.0	791.4	747.7	705.9	669.4
27.5°	1116.0	1061.8	1007.9	958.3	912.3	867.0	817.1	765.2	716.7	674.3	640.0
30°	1107.1	1047.6	987.0	935.2	888.1	843.9	796.8	746.2	695.5	654.1	617.2
32.5°	1099.1	1029.9	965.9	909.5	859.6	816.7	773.2	725.0	675.3	633.2	596.4
35°	1083.8	1003.6	930.3	866.6	813.2	769.2	732.8	687.8	642.2	601.5	566.2
37.5°	1064.2	969.1	890.4	823.6	765.2	718.7	684.8	650.4	606.5	567.3	535.4
40°	1048.8	944.5	861.2	792.9	732.4	684.0	652.6	620.0	583.5	547.0	513.3
42.5°	1029.5	922.4	831.7	758.3	698.3	651.2	618.1	590.5	558.4	524.3	493.0
45°	994.0	882.3	784.2	705.1	644.5	598.0	563.9	543.2	519.1	486.9	460.4
47.5°	941.7	834.2	732.7	651.1	588.5	545.5	513.5	493.6	476.7	452.7	428.7
50°	895.3	798.3	695.5	614.6	552.0	508.7	479.2	461.1	446.6	428.1	407.8
52.5°	843.5	753.2	659.0	579.0	517.1	474.3	445.4	429.5	417.4	404.1	384.2
55°	761.1	684.4	596.9	521.0	463.8	422.0	396.7	382.8	372.8	362.9	350.6
57.5°	670.3	610.4	532.8	463.4	410.8	372.7	349.1	335.7	327.9	322.8	315.6
60°	606.5	555.1	488.4	425.1	373.7	339.9	316.9	306.5	300.0	295.8	290.4
62.5°	547.2	505.0	443.2	385.5	340.5	308.6	288.0	278.0	271.8	269.7	265.2
65°	460.0	427.4	376.4	328.4	290.0	262.8	245.5	235.9	232.1	229.7	230.1
67.5°	374.0	354.1	313.2	272.3	241.6	218.7	204.9	197.5	195.6	192.6	192.5
70°	321.4	306.5	272.0	236.3	209.0	191.5	179.2	171.5	169.6	168.0	167.6
72.5°	275.1	262.1	232.1	203.5	179.0	163.5	153.4	148.8	145.6	144.7	144.6
75°	206.8	199.4	175.7	153.1	136.2	125.4	118.6	114.3	112.0	111.6	112.0
77.5°	147.0	140.7	125.5	109.5	98.9	90.7	84.8	83.4	80.8	80.9	80.5
80°	110.5	106.2	96.6	84.0	75.2	68.3	65.2	62.5	61.8	60.6	61.8
82.5°	80.1	75.5	69.1	61.0	53.7	49.6	46.5	45.6	45.1	44.6	44.8
85°	39.5	39.9	36.1	29.9	26.9	24.5	22.6	22.6	22.2	21.9	22.2
87.5°	14.6	13.9	12.5	11.5	9.8	8.7	8.3	8.4	7.6	7.5	8.0
90°	5.9	5.2	4.4	3.7	2.9	2.1	1.3	0.5	1.3	2.1	2.9
92.5°	6.1	5.5	4.7	4.7	5.4	5.9	6.5	7.1	6.5	5.9	5.4
95°	15.0	18.9	22.7	24.8	25.1	25.4	25.8	26.1	25.8	25.4	25.1
97.5°	37.8	45.3	53.0	56.6	56.0	55.4	54.9	54.3	54.9	55.4	56.0
100°	78.7	78.3	77.9	77.6	77.3	77.0	76.6	76.2	76.6	77.0	77.3
102.5°	100.9	100.7	100.5	100.2	99.8	99.4	99.0	98.6	99.0	99.4	99.8
105°	136.1	136.1	136.1	135.9	135.5	135.1	134.7	134.3	134.7	135.1	135.5
107.5°	171.9	171.7	171.5	171.4	171.4	171.4	171.4	171.4	171.4	171.4	171.4
110°	196.0	195.8	195.6	195.5	195.5	195.5	195.5	195.5	195.5	195.5	195.5





TEST NUMBER: P333370-840

CATALOG NUMBER: S125DIW-S610D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	219.6	219.4	219.3	219.1	218.9	218.6	218.4	218.2	218.4	218.6	218.9
115°	254.7	254.6	254.5	254.2	253.7	253.2	252.7	252.2	252.7	253.2	253.7
117.5°	288.2	287.8	287.5	287.3	287.3	287.3	287.3	287.4	287.3	287.3	287.3
120°	309.6	309.3	309.0	308.9	309.0	309.1	309.2	309.3	309.2	309.1	309.0
122.5°	330.7	330.6	330.4	330.2	329.8	329.4	329.0	328.7	329.0	329.4	329.8
125°	361.8	361.8	361.8	361.4	360.7	360.0	359.3	358.6	359.3	360.0	360.7
127.5°	389.4	389.4	389.5	389.3	388.8	388.3	387.8	387.2	387.8	388.3	388.8
130°	407.3	407.2	407.1	406.8	406.3	405.8	405.3	404.8	405.3	405.8	406.3
132.5°	424.4	424.6	424.9	424.6	424.0	423.5	422.9	422.3	422.9	423.5	424.0
135°	449.5	449.7	449.9	449.7	449.1	448.5	447.9	447.3	447.9	448.5	449.1
137.5°	472.1	472.3	472.5	472.3	471.8	471.2	470.7	470.2	470.7	471.2	471.8
140°	485.8	485.9	486.0	485.9	485.7	485.5	485.3	485.1	485.3	485.5	485.7
142.5°	499.6	499.5	499.3	499.2	499.1	499.0	498.9	498.7	498.9	499.0	499.1
145°	519.5	519.5	519.5	519.4	519.2	519.0	518.8	518.6	518.8	519.0	519.2
147.5°	536.0	535.9	535.7	535.7	535.7	535.8	535.8	535.9	535.8	535.8	535.7
150°	546.4	546.2	546.0	546.0	546.2	546.4	546.6	546.8	546.6	546.4	546.2
152.5°	555.9	555.7	555.5	555.6	556.1	556.5	557.0	557.4	557.0	556.5	556.1
155°	568.9	568.7	568.5	568.7	569.3	569.9	570.5	571.1	570.5	569.9	569.3
157.5°	580.0	580.0	580.0	580.1	580.5	580.9	581.2	581.6	581.2	580.9	580.5
160°	586.4	586.3	586.2	586.4	587.0	587.6	588.2	588.9	588.2	587.6	587.0
162.5°	592.3	592.2	592.1	592.3	592.9	593.5	594.1	594.7	594.1	593.5	592.9
165°	600.1	600.0	599.9	600.2	600.8	601.4	602.0	602.6	602.0	601.4	600.8
167.5°	605.8	605.7	605.6	605.9	606.5	607.2	607.8	608.4	607.8	607.2	606.5
170°	608.7	608.6	608.5	608.8	609.6	610.3	611.1	611.8	611.1	610.3	609.6
172.5°	611.2	611.0	610.9	611.1	611.8	612.5	613.2	613.9	613.2	612.5	611.8
175°	613.8	613.7	613.6	613.9	614.5	615.1	615.7	616.3	615.7	615.1	614.5
177.5°	615.4	615.3	615.2	615.4	615.9	616.4	616.9	617.4	616.9	616.4	615.9
180°	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3



TEST NUMBER: P333370-840

CATALOG NUMBER: S125DIW-S610D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8
2.5°	888.2	884.7	882.0	875.9	872.5	867.9	864.2	868.2	863.9	865.8	863.0
5°	860.5	849.7	842.0	830.9	821.3	812.5	806.0	804.9	801.7	800.2	795.7
7.5°	827.2	813.7	800.5	786.0	773.7	761.2	753.2	746.6	742.3	736.5	732.6
10°	807.5	789.5	774.2	756.5	741.1	727.7	717.0	711.7	706.6	699.3	696.7
12.5°	783.3	764.7	745.9	727.0	712.4	697.3	688.1	680.0	676.6	668.3	667.5
15°	754.2	726.2	707.8	688.6	668.2	656.0	648.3	639.5	635.7	630.0	625.7
17.5°	719.5	694.5	671.5	651.7	634.2	623.9	614.3	608.2	601.7	597.9	591.0
20°	694.4	670.6	647.5	626.4	613.0	601.2	593.5	587.7	580.8	578.9	572.0
22.5°	673.2	646.9	624.8	607.1	592.5	579.1	570.8	566.8	562.1	556.1	554.8
25°	638.7	611.5	592.7	575.0	562.0	549.8	544.0	539.0	534.4	530.2	528.7
27.5°	608.9	584.6	562.3	546.3	535.0	523.8	518.8	512.7	509.3	505.9	501.8
30°	588.1	563.2	543.6	528.3	515.9	506.0	500.6	496.4	493.3	490.3	488.0
32.5°	566.6	543.5	524.5	509.6	497.3	489.8	484.9	482.0	478.6	474.9	472.0
35°	538.3	512.9	494.5	481.4	471.8	466.1	460.7	458.1	454.2	454.2	451.1
37.5°	506.2	484.3	468.1	456.2	447.6	442.4	436.7	434.8	432.3	430.7	429.7
40°	487.2	466.9	451.5	439.6	430.4	426.2	421.6	418.5	417.0	415.1	414.3
42.5°	467.6	448.2	433.4	422.4	414.4	410.8	406.6	404.5	401.3	398.8	398.4
45°	437.7	418.9	405.5	396.7	389.8	385.6	382.8	378.3	376.7	373.7	373.2
47.5°	409.4	391.3	378.2	370.9	364.9	361.4	357.2	352.6	350.8	349.3	349.2
50°	388.2	371.7	359.4	352.5	346.8	341.8	337.6	334.6	333.4	333.4	334.2
52.5°	366.8	352.7	342.2	333.9	328.4	323.1	319.2	317.3	315.6	317.4	318.8
55°	335.3	321.1	313.5	305.4	300.0	293.9	292.0	291.1	290.0	293.1	294.6
57.5°	301.9	292.1	283.1	275.1	270.2	266.7	264.1	263.7	265.8	267.2	272.3
60°	280.8	269.3	261.3	255.1	249.3	247.0	246.3	245.5	247.0	251.3	257.8
62.5°	257.5	248.1	239.4	234.9	230.7	226.8	226.6	227.1	230.1	235.0	241.6
65°	223.3	215.2	209.4	204.1	200.7	198.3	199.1	200.7	204.1	210.7	217.9
67.5°	188.5	183.0	177.8	173.5	170.2	170.2	171.0	173.3	177.3	184.8	191.5
70°	166.1	160.0	155.7	153.8	151.2	149.7	151.9	155.7	159.2	166.1	171.9
72.5°	143.7	138.5	135.2	133.9	132.7	131.5	132.3	136.4	141.1	148.0	154.7
75°	110.5	108.6	106.2	104.7	103.6	104.3	105.1	109.0	112.8	120.1	127.7
77.5°	80.7	78.7	77.3	76.9	76.2	76.6	78.8	81.6	85.4	90.7	96.5
80°	61.0	60.2	59.5	59.1	59.1	59.5	62.5	64.4	67.9	72.9	77.5
82.5°	44.4	43.9	43.8	43.7	44.0	44.1	45.9	48.5	51.3	55.1	59.1
85°	23.4	22.6	23.8	24.1	23.4	24.5	25.3	26.9	28.0	29.9	31.8
87.5°	8.4	9.2	9.0	9.5	9.6	10.4	10.2	11.5	12.2	12.9	12.7
90°	3.7	4.4	5.2	5.9	6.6	7.3	7.8	8.3	8.8	9.3	9.8
92.5°	4.7	4.7	5.5	6.1	6.7	7.3	7.8	8.3	8.8	9.3	9.7
95°	24.8	22.7	18.9	15.0	11.2	7.3	7.8	8.3	8.8	9.3	9.6
97.5°	56.6	53.0	45.3	37.8	30.1	22.5	19.6	16.8	13.9	11.0	9.6
100°	77.6	77.9	78.3	78.7	79.1	79.5	64.3	49.3	34.1	19.0	11.2
102.5°	100.2	100.5	100.7	100.9	101.2	101.4	98.6	95.7	92.8	90.0	85.1
105°	135.9	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1	136.1
107.5°	171.4	171.5	171.7	171.9	172.1	172.3	172.4	172.4	172.4	172.4	172.3
110°	195.5	195.6	195.8	196.0	196.2	196.4	196.1	195.8	195.5	195.2	195.1



TEST NUMBER: P333370-840

CATALOG NUMBER: S125DIW-S610D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	219.1	219.3	219.4	219.6	219.7	219.8	219.4	219.0	218.6	218.3	218.0
115°	254.2	254.5	254.6	254.7	254.8	254.9	254.5	254.1	253.7	253.3	252.8
117.5°	287.3	287.5	287.8	288.2	288.6	289.0	288.5	287.9	287.4	286.9	286.5
120°	308.9	309.0	309.3	309.6	309.9	310.2	310.0	309.8	309.6	309.4	309.0
122.5°	330.2	330.4	330.6	330.7	330.9	331.0	330.8	330.6	330.4	330.2	329.8
125°	361.4	361.8	361.8	361.8	361.8	361.8	361.4	361.0	360.6	360.2	359.8
127.5°	389.3	389.5	389.4	389.4	389.3	389.2	389.0	388.8	388.6	388.4	387.9
130°	406.8	407.1	407.2	407.3	407.4	407.5	407.2	406.9	406.6	406.3	405.9
132.5°	424.6	424.9	424.6	424.4	424.1	423.9	423.9	423.8	423.7	423.7	423.4
135°	449.7	449.9	449.7	449.5	449.3	449.1	448.9	448.7	448.5	448.3	447.9
137.5°	472.3	472.5	472.3	472.1	471.9	471.7	471.8	471.8	471.9	471.9	471.7
140°	485.9	486.0	485.9	485.8	485.7	485.6	485.8	486.0	486.3	486.5	486.3
142.5°	499.2	499.3	499.5	499.6	499.8	499.9	499.9	500.0	500.0	500.1	499.8
145°	519.4	519.5	519.5	519.5	519.5	519.5	519.6	519.7	519.8	519.9	519.6
147.5°	535.7	535.7	535.9	536.0	536.1	536.2	536.3	536.5	536.6	536.7	536.4
150°	546.0	546.0	546.2	546.4	546.6	546.8	547.0	547.2	547.4	547.6	547.3
152.5°	555.6	555.5	555.7	555.9	556.1	556.3	556.5	556.7	556.9	557.1	556.9
155°	568.7	568.5	568.7	568.9	569.1	569.3	569.6	569.9	570.2	570.5	570.2
157.5°	580.1	580.0	580.0	580.0	580.0	580.1	580.4	580.7	581.0	581.3	581.1
160°	586.4	586.2	586.3	586.4	586.5	586.6	587.0	587.4	587.8	588.2	588.0
162.5°	592.3	592.1	592.2	592.3	592.4	592.5	593.0	593.6	594.2	594.7	594.6
165°	600.2	599.9	600.0	600.1	600.2	600.3	600.9	601.6	602.2	602.8	602.7
167.5°	605.9	605.6	605.7	605.8	605.9	606.0	606.8	607.5	608.2	608.9	608.9
170°	608.8	608.5	608.6	608.7	608.8	608.9	609.8	610.6	611.5	612.3	612.2
172.5°	611.1	610.9	611.0	611.2	611.4	611.6	612.3	613.0	613.7	614.5	614.4
175°	613.9	613.6	613.7	613.8	613.9	614.0	614.8	615.6	616.4	617.2	617.2
177.5°	615.4	615.2	615.3	615.4	615.5	615.6	616.1	616.7	617.2	617.8	617.8
180°	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3



TEST NUMBER: P333370-840

CATALOG NUMBER: S125DIW-S610D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8
2.5°	861.1	863.3	861.5	863.9	861.5	863.3	861.1	863.0	865.8	863.9	868.2
5°	793.8	790.2	792.5	791.0	792.5	790.2	793.8	795.7	800.2	801.7	804.9
7.5°	731.4	728.1	724.4	722.6	724.4	728.1	731.4	732.6	736.5	742.3	746.6
10°	692.5	688.2	687.8	685.2	687.8	688.2	692.5	696.7	699.3	706.6	711.7
12.5°	663.9	659.9	655.6	654.5	655.6	659.9	663.9	667.5	668.3	676.6	680.0
15°	623.4	620.4	617.6	620.0	617.6	620.4	623.4	625.7	630.0	635.7	639.5
17.5°	589.7	587.1	586.7	583.9	586.7	587.1	589.7	591.0	597.9	601.7	608.2
20°	568.6	566.6	567.3	562.4	567.3	566.6	568.6	572.0	578.9	580.8	587.7
22.5°	551.7	547.9	547.4	546.4	547.4	547.9	551.7	554.8	556.1	562.1	566.8
25°	525.2	523.3	521.4	523.3	521.4	523.3	525.2	528.7	530.2	534.4	539.0
27.5°	502.1	499.8	499.3	499.5	499.3	499.8	502.1	501.8	505.9	509.3	512.7
30°	488.0	484.1	484.5	484.1	484.5	484.1	488.0	488.0	490.3	493.3	496.4
32.5°	472.6	470.0	469.5	468.8	469.5	470.0	472.6	472.0	474.9	478.6	482.0
35°	450.0	450.0	448.1	448.1	448.1	450.0	450.0	451.1	454.2	454.2	458.1
37.5°	428.7	428.4	427.2	427.4	427.2	428.4	428.7	429.7	430.7	432.3	434.8
40°	412.7	412.4	411.2	408.9	411.2	412.4	412.7	414.3	415.1	417.0	418.5
42.5°	397.5	396.2	395.6	394.9	395.6	396.2	397.5	398.4	398.8	401.3	404.5
45°	373.2	373.2	372.5	372.1	372.5	373.2	373.2	373.2	373.7	376.7	378.3
47.5°	349.8	350.5	351.9	351.7	351.9	350.5	349.8	349.2	349.3	350.8	352.6
50°	335.7	336.1	337.2	337.6	337.2	336.1	335.7	334.2	333.4	333.4	334.6
52.5°	320.0	322.2	323.7	323.5	323.7	322.2	320.0	318.8	317.4	315.6	317.3
55°	298.1	300.7	303.5	303.9	303.5	300.7	298.1	294.6	293.1	290.0	291.1
57.5°	276.4	280.1	283.0	283.9	283.0	280.1	276.4	272.3	267.2	265.8	263.7
60°	261.7	266.6	270.0	271.7	270.0	266.6	261.7	257.8	251.3	247.0	245.5
62.5°	247.5	253.1	256.6	256.9	256.6	253.1	247.5	241.6	235.0	230.1	227.1
65°	224.4	230.1	233.3	235.5	233.3	230.1	224.4	217.9	210.7	204.1	200.7
67.5°	199.5	205.3	208.7	210.6	208.7	205.3	199.5	191.5	184.8	177.3	173.3
70°	181.5	187.2	191.8	193.4	191.8	187.2	181.5	171.9	166.1	159.2	155.7
72.5°	163.7	168.7	172.5	174.3	172.5	168.7	163.7	154.7	148.0	141.1	136.4
75°	132.7	139.7	143.1	145.0	143.1	139.7	132.7	127.7	120.1	112.8	109.0
77.5°	102.4	108.7	110.7	111.7	110.7	108.7	102.4	96.5	90.7	85.4	81.6
80°	82.1	85.9	88.7	89.0	88.7	85.9	82.1	77.5	72.9	67.9	64.4
82.5°	63.1	66.2	67.2	68.2	67.2	66.2	63.1	59.1	55.1	51.3	48.5
85°	34.5	36.1	36.5	36.1	36.5	36.1	34.5	31.8	29.9	28.0	26.9
87.5°	13.3	13.1	13.2	13.8	13.2	13.1	13.3	12.7	12.9	12.2	11.5
90°	10.1	10.4	10.7	11.0	10.7	10.4	10.1	9.8	9.3	8.8	8.3
92.5°	9.8	10.0	10.1	10.2	10.1	10.0	9.8	9.7	9.3	8.8	8.3
95°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.3	8.8	8.3
97.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	11.0	13.9	16.8
100°	10.8	10.4	10.0	9.6	10.0	10.4	10.8	11.2	19.0	34.1	49.3
102.5°	78.2	71.3	64.3	57.5	64.3	71.3	78.2	85.1	90.0	92.8	95.7
105°	136.0	135.9	135.8	135.7	135.8	135.9	136.0	136.1	136.1	136.1	136.1
107.5°	172.0	171.7	171.4	171.1	171.4	171.7	172.0	172.3	172.4	172.4	172.4
110°	195.2	195.3	195.4	195.5	195.4	195.3	195.2	195.1	195.2	195.5	195.8



TEST NUMBER: P333370-840

CATALOG NUMBER: S125DIW-S610D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	217.9	217.7	217.6	217.4	217.6	217.7	217.9	218.0	218.3	218.6	219.0
115°	252.2	251.6	251.0	250.3	251.0	251.6	252.2	252.8	253.3	253.7	254.1
117.5°	286.2	286.0	285.7	285.5	285.7	286.0	286.2	286.5	286.9	287.4	287.9
120°	308.5	308.0	307.5	307.0	307.5	308.0	308.5	309.0	309.4	309.6	309.8
122.5°	329.2	328.6	328.1	327.5	328.1	328.6	329.2	329.8	330.2	330.4	330.6
125°	359.5	359.2	358.9	358.6	358.9	359.2	359.5	359.8	360.2	360.6	361.0
127.5°	387.1	386.4	385.6	384.9	385.6	386.4	387.1	387.9	388.4	388.6	388.8
130°	405.4	404.9	404.3	403.8	404.3	404.9	405.4	405.9	406.3	406.6	406.9
132.5°	422.9	422.4	421.9	421.4	421.9	422.4	422.9	423.4	423.7	423.7	423.8
135°	447.3	446.7	446.1	445.5	446.1	446.7	447.3	447.9	448.3	448.5	448.7
137.5°	471.1	470.6	470.1	469.6	470.1	470.6	471.1	471.7	471.9	471.9	471.8
140°	485.6	485.0	484.4	483.8	484.4	485.0	485.6	486.3	486.5	486.3	486.0
142.5°	499.2	498.6	498.0	497.4	498.0	498.6	499.2	499.8	500.1	500.0	500.0
145°	519.0	518.4	517.8	517.2	517.8	518.4	519.0	519.6	519.9	519.8	519.7
147.5°	535.7	535.0	534.2	533.5	534.2	535.0	535.7	536.4	536.7	536.6	536.5
150°	546.5	545.7	544.9	544.1	544.9	545.7	546.5	547.3	547.6	547.4	547.2
152.5°	556.1	555.4	554.7	554.0	554.7	555.4	556.1	556.9	557.1	556.9	556.7
155°	569.4	568.6	567.7	566.9	567.7	568.6	569.4	570.2	570.5	570.2	569.9
157.5°	580.3	579.5	578.7	577.8	578.7	579.5	580.3	581.1	581.3	581.0	580.7
160°	587.2	586.4	585.6	584.8	585.6	586.4	587.2	588.0	588.2	587.8	587.4
162.5°	593.7	592.8	591.9	591.0	591.9	592.8	593.7	594.6	594.7	594.2	593.6
165°	601.9	601.0	600.2	599.4	600.2	601.0	601.9	602.7	602.8	602.2	601.6
167.5°	607.9	607.0	606.1	605.2	606.1	607.0	607.9	608.9	608.9	608.2	607.5
170°	611.3	610.4	609.5	608.5	609.5	610.4	611.3	612.2	612.3	611.5	610.6
172.5°	613.5	612.6	611.7	610.8	611.7	612.6	613.5	614.4	614.5	613.7	613.0
175°	616.3	615.4	614.5	613.6	614.5	615.4	616.3	617.2	617.2	616.4	615.6
177.5°	617.1	616.5	615.8	615.2	615.8	616.5	617.1	617.8	617.8	617.2	616.7
180°	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3



TEST NUMBER: P333370-840

CATALOG NUMBER: S125DIW-S610D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8
2.5°	864.2	867.9	872.5	875.9	882.0	884.7	888.2	890.9	895.9	900.4	905.9
5°	806.0	812.5	821.3	830.9	842.0	849.7	860.5	867.0	880.0	891.9	903.4
7.5°	753.2	761.2	773.7	786.0	800.5	813.7	827.2	842.0	858.7	878.4	894.6
10°	717.0	727.7	741.1	756.5	774.2	789.5	807.5	823.6	843.9	867.0	888.5
12.5°	688.1	697.3	712.4	727.0	745.9	764.7	783.3	804.7	828.3	853.8	880.8
15°	648.3	656.0	668.2	688.6	707.8	726.2	754.2	774.2	804.1	832.4	865.1
17.5°	614.3	623.9	634.2	651.7	671.5	694.5	719.5	744.6	773.4	809.4	846.2
20°	593.5	601.2	613.0	626.4	647.5	670.6	694.4	719.6	755.0	792.1	831.7
22.5°	570.8	579.1	592.5	607.1	624.8	646.9	673.2	700.9	737.8	774.4	817.3
25°	544.0	549.8	562.0	575.0	592.7	611.5	638.7	669.4	705.9	747.7	791.4
27.5°	518.8	523.8	535.0	546.3	562.3	584.6	608.9	640.0	674.3	716.7	765.2
30°	500.6	506.0	515.9	528.3	543.6	563.2	588.1	617.2	654.1	695.5	746.2
32.5°	484.9	489.8	497.3	509.6	524.5	543.5	566.6	596.4	633.2	675.3	725.0
35°	460.7	466.1	471.8	481.4	494.5	512.9	538.3	566.2	601.5	642.2	687.8
37.5°	436.7	442.4	447.6	456.2	468.1	484.3	506.2	535.4	567.3	606.5	650.4
40°	421.6	426.2	430.4	439.6	451.5	466.9	487.2	513.3	547.0	583.5	620.0
42.5°	406.6	410.8	414.4	422.4	433.4	448.2	467.6	493.0	524.3	558.4	590.5
45°	382.8	385.6	389.8	396.7	405.5	418.9	437.7	460.4	486.9	519.1	543.2
47.5°	357.2	361.4	364.9	370.9	378.2	391.3	409.4	428.7	452.7	476.7	493.6
50°	337.6	341.8	346.8	352.5	359.4	371.7	388.2	407.8	428.1	446.6	461.1
52.5°	319.2	323.1	328.4	333.9	342.2	352.7	366.8	384.2	404.1	417.4	429.5
55°	292.0	293.9	300.0	305.4	313.5	321.1	335.3	350.6	362.9	372.8	382.8
57.5°	264.1	266.7	270.2	275.1	283.1	292.1	301.9	315.6	322.8	327.9	335.7
60°	246.3	247.0	249.3	255.1	261.3	269.3	280.8	290.4	295.8	300.0	306.5
62.5°	226.6	226.8	230.7	234.9	239.4	248.1	257.5	265.2	269.7	271.8	278.0
65°	199.1	198.3	200.7	204.1	209.4	215.2	223.3	230.1	229.7	232.1	235.9
67.5°	171.0	170.2	170.2	173.5	177.8	183.0	188.5	192.5	192.6	195.6	197.5
70°	151.9	149.7	151.2	153.8	155.7	160.0	166.1	167.6	168.0	169.6	171.5
72.5°	132.3	131.5	132.7	133.9	135.2	138.5	143.7	144.6	144.7	145.6	148.8
75°	105.1	104.3	103.6	104.7	106.2	108.6	110.5	112.0	111.6	112.0	114.3
77.5°	78.8	76.6	76.2	76.9	77.3	78.7	80.7	80.5	80.9	80.8	83.4
80°	62.5	59.5	59.1	59.1	59.5	60.2	61.0	61.8	60.6	61.8	62.5
82.5°	45.9	44.1	44.0	43.7	43.8	43.9	44.4	44.8	44.6	45.1	45.6
85°	25.3	24.5	23.4	24.1	23.8	22.6	23.4	22.2	21.9	22.2	22.6
87.5°	10.2	10.4	9.6	9.5	9.0	9.2	8.4	8.0	7.5	7.6	8.4
90°	7.8	7.3	6.6	5.9	5.2	4.4	3.7	2.9	2.1	1.3	0.5
92.5°	7.8	7.3	6.7	6.1	5.5	4.7	4.7	5.4	5.9	6.5	7.1
95°	7.8	7.3	11.2	15.0	18.9	22.7	24.8	25.1	25.4	25.8	26.1
97.5°	19.6	22.5	30.1	37.8	45.3	53.0	56.6	56.0	55.4	54.9	54.3
100°	64.3	79.5	79.1	78.7	78.3	77.9	77.6	77.3	77.0	76.6	76.2
102.5°	98.6	101.4	101.2	100.9	100.7	100.5	100.2	99.8	99.4	99.0	98.6
105°	136.1	136.1	136.1	136.1	136.1	136.1	135.9	135.5	135.1	134.7	134.3
107.5°	172.4	172.3	172.1	171.9	171.7	171.5	171.4	171.4	171.4	171.4	171.4
110°	196.1	196.4	196.2	196.0	195.8	195.6	195.5	195.5	195.5	195.5	195.5



TEST NUMBER: P333370-840

CATALOG NUMBER: S125DIW-S610D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	219.4	219.8	219.7	219.6	219.4	219.3	219.1	218.9	218.6	218.4	218.2
115°	254.5	254.9	254.8	254.7	254.6	254.5	254.2	253.7	253.2	252.7	252.2
117.5°	288.5	289.0	288.6	288.2	287.8	287.5	287.3	287.3	287.3	287.3	287.4
120°	310.0	310.2	309.9	309.6	309.3	309.0	308.9	309.0	309.1	309.2	309.3
122.5°	330.8	331.0	330.9	330.7	330.6	330.4	330.2	329.8	329.4	329.0	328.7
125°	361.4	361.8	361.8	361.8	361.8	361.8	361.4	360.7	360.0	359.3	358.6
127.5°	389.0	389.2	389.3	389.4	389.4	389.5	389.3	388.8	388.3	387.8	387.2
130°	407.2	407.5	407.4	407.3	407.2	407.1	406.8	406.3	405.8	405.3	404.8
132.5°	423.9	423.9	424.1	424.4	424.6	424.9	424.6	424.0	423.5	422.9	422.3
135°	448.9	449.1	449.3	449.5	449.7	449.9	449.7	449.1	448.5	447.9	447.3
137.5°	471.8	471.7	471.9	472.1	472.3	472.5	472.3	471.8	471.2	470.7	470.2
140°	485.8	485.6	485.7	485.8	485.9	486.0	485.9	485.7	485.5	485.3	485.1
142.5°	499.9	499.9	499.8	499.6	499.5	499.3	499.2	499.1	499.0	498.9	498.7
145°	519.6	519.5	519.5	519.5	519.5	519.5	519.4	519.2	519.0	518.8	518.6
147.5°	536.3	536.2	536.1	536.0	535.9	535.7	535.7	535.7	535.8	535.8	535.9
150°	547.0	546.8	546.6	546.4	546.2	546.0	546.0	546.2	546.4	546.6	546.8
152.5°	556.5	556.3	556.1	555.9	555.7	555.5	555.6	556.1	556.5	557.0	557.4
155°	569.6	569.3	569.1	568.9	568.7	568.5	568.7	569.3	569.9	570.5	571.1
157.5°	580.4	580.1	580.0	580.0	580.0	580.0	580.1	580.5	580.9	581.2	581.6
160°	587.0	586.6	586.5	586.4	586.3	586.2	586.4	587.0	587.6	588.2	588.9
162.5°	593.0	592.5	592.4	592.3	592.2	592.1	592.3	592.9	593.5	594.1	594.7
165°	600.9	600.3	600.2	600.1	600.0	599.9	600.2	600.8	601.4	602.0	602.6
167.5°	606.8	606.0	605.9	605.8	605.7	605.6	605.9	606.5	607.2	607.8	608.4
170°	609.8	608.9	608.8	608.7	608.6	608.5	608.8	609.6	610.3	611.1	611.8
172.5°	612.3	611.6	611.4	611.2	611.0	610.9	611.1	611.8	612.5	613.2	613.9
175°	614.8	614.0	613.9	613.8	613.7	613.6	613.9	614.5	615.1	615.7	616.3
177.5°	616.1	615.6	615.5	615.4	615.3	615.2	615.4	615.9	616.4	616.9	617.4
180°	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3



TEST NUMBER: P333370-840

CATALOG NUMBER: S125DIW-S610D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8	903.8
2.5°	908.8	913.0	915.7	921.0	925.3	927.8	929.9	931.7	933.9	935.7	941.0
5°	914.5	924.5	933.0	946.0	958.0	967.1	977.0	985.9	993.2	1003.6	1011.6
7.5°	912.0	929.8	948.4	968.5	989.2	1008.4	1025.9	1042.5	1057.4	1075.5	1091.4
10°	909.6	933.7	957.6	984.7	1012.8	1036.5	1058.8	1081.5	1097.9	1121.0	1140.5
12.5°	907.8	936.2	964.9	997.6	1028.4	1062.0	1091.7	1108.1	1133.3	1151.7	1174.9
15°	900.0	937.6	977.0	1013.9	1057.6	1088.7	1114.8	1147.0	1170.4	1193.9	1219.1
17.5°	886.1	928.7	972.9	1021.2	1063.1	1096.5	1130.0	1161.1	1189.1	1220.4	1252.0
20°	879.7	922.2	972.9	1022.4	1063.4	1098.3	1132.9	1167.0	1197.7	1238.0	1274.3
22.5°	866.2	917.7	964.3	1012.5	1054.8	1092.8	1132.0	1170.6	1211.4	1257.0	1302.6
25°	842.0	894.2	943.7	991.3	1033.9	1081.5	1123.3	1175.1	1227.2	1287.5	1344.2
27.5°	817.1	867.0	912.3	958.3	1007.9	1061.8	1116.0	1174.8	1243.1	1319.1	1399.3
30°	796.8	843.9	888.1	935.2	987.0	1047.6	1107.1	1177.0	1256.0	1341.5	1436.6
32.5°	773.2	816.7	859.6	909.5	965.9	1029.9	1099.1	1175.7	1270.7	1368.0	1465.8
35°	732.8	769.2	813.2	866.6	930.3	1003.6	1083.8	1174.3	1283.2	1394.8	1477.3
37.5°	684.8	718.7	765.2	823.6	890.4	969.1	1064.2	1171.5	1287.3	1376.2	1402.9
40°	652.6	684.0	732.4	792.9	861.2	944.5	1048.8	1162.4	1274.3	1331.2	1309.3
42.5°	618.1	651.2	698.3	758.3	831.7	922.4	1029.5	1143.1	1237.0	1258.4	1182.9
45°	563.9	598.0	644.5	705.1	784.2	882.3	994.0	1097.1	1151.2	1112.5	995.5
47.5°	513.5	545.5	588.5	651.1	732.7	834.2	941.7	1024.0	1028.3	935.8	810.9
50°	479.2	508.7	552.0	614.6	695.5	798.3	895.3	960.2	931.1	826.4	706.3
52.5°	445.4	474.3	517.1	579.0	659.0	753.2	843.5	889.0	834.0	726.6	624.0
55°	396.7	422.0	463.8	521.0	596.9	684.4	761.1	776.8	705.5	599.6	516.3
57.5°	349.1	372.7	410.8	463.4	532.8	610.4	670.3	667.0	591.6	500.7	434.6
60°	316.9	339.9	373.7	425.1	488.4	555.1	606.5	594.2	519.5	441.2	385.6
62.5°	288.0	308.6	340.5	385.5	443.2	505.0	547.2	529.2	455.9	387.5	343.5
65°	245.5	262.8	290.0	328.4	376.4	427.4	460.0	436.6	374.1	320.7	285.4
67.5°	204.9	218.7	241.6	272.3	313.2	354.1	374.0	350.4	300.3	261.5	235.3
70°	179.2	191.5	209.0	236.3	272.0	306.5	321.4	300.3	257.4	224.0	205.2
72.5°	153.4	163.5	179.0	203.5	232.1	262.1	275.1	255.0	219.6	191.5	173.9
75°	118.6	125.4	136.2	153.1	175.7	199.4	206.8	189.1	166.5	145.4	133.9
77.5°	84.8	90.7	98.9	109.5	125.5	140.7	147.0	136.8	119.3	105.9	96.5
80°	65.2	68.3	75.2	84.0	96.6	106.2	110.5	103.9	91.7	81.7	74.4
82.5°	46.5	49.6	53.7	61.0	69.1	75.5	80.1	75.7	66.9	59.0	54.7
85°	22.6	24.5	26.9	29.9	36.1	39.9	39.5	36.9	33.3	30.3	28.0
87.5°	8.3	8.7	9.8	11.5	12.5	13.9	14.6	14.2	13.1	12.3	11.5
90°	1.3	2.1	2.9	3.7	4.4	5.2	5.9	6.6	7.3	7.8	8.3
92.5°	6.5	5.9	5.4	4.7	4.7	5.5	6.1	6.7	7.3	7.8	8.3
95°	25.8	25.4	25.1	24.8	22.7	18.9	15.0	11.2	7.3	7.8	8.3
97.5°	54.9	55.4	56.0	56.6	53.0	45.3	37.8	30.1	22.5	19.6	16.8
100°	76.6	77.0	77.3	77.6	77.9	78.3	78.7	79.1	79.5	64.3	49.3
102.5°	99.0	99.4	99.8	100.2	100.5	100.7	100.9	101.2	101.4	98.6	95.7
105°	134.7	135.1	135.5	135.9	136.1	136.1	136.1	136.1	136.1	136.1	136.1
107.5°	171.4	171.4	171.4	171.4	171.5	171.7	171.9	172.1	172.3	172.4	172.4
110°	195.5	195.5	195.5	195.5	195.6	195.8	196.0	196.2	196.4	196.1	195.8





TEST NUMBER: P333370-840

CATALOG NUMBER: S125DIW-S610D470U840-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	218.4	218.6	218.9	219.1	219.3	219.4	219.6	219.7	219.8	219.4	219.0
115°	252.7	253.2	253.7	254.2	254.5	254.6	254.7	254.8	254.9	254.5	254.1
117.5°	287.3	287.3	287.3	287.3	287.5	287.8	288.2	288.6	289.0	288.5	287.9
120°	309.2	309.1	309.0	308.9	309.0	309.3	309.6	309.9	310.2	310.0	309.8
122.5°	329.0	329.4	329.8	330.2	330.4	330.6	330.7	330.9	331.0	330.8	330.6
125°	359.3	360.0	360.7	361.4	361.8	361.8	361.8	361.8	361.8	361.4	361.0
127.5°	387.8	388.3	388.8	389.3	389.5	389.4	389.4	389.3	389.2	389.0	388.8
130°	405.3	405.8	406.3	406.8	407.1	407.2	407.3	407.4	407.5	407.2	406.9
132.5°	422.9	423.5	424.0	424.6	424.9	424.6	424.4	424.1	423.9	423.9	423.8
135°	447.9	448.5	449.1	449.7	449.9	449.7	449.5	449.3	449.1	448.9	448.7
137.5°	470.7	471.2	471.8	472.3	472.5	472.3	472.1	471.9	471.7	471.8	471.8
140°	485.3	485.5	485.7	485.9	486.0	485.9	485.8	485.7	485.6	485.8	486.0
142.5°	498.9	499.0	499.1	499.2	499.3	499.5	499.6	499.8	499.9	499.9	500.0
145°	518.8	519.0	519.2	519.4	519.5	519.5	519.5	519.5	519.5	519.6	519.7
147.5°	535.8	535.8	535.7	535.7	535.7	535.9	536.0	536.1	536.2	536.3	536.5
150°	546.6	546.4	546.2	546.0	546.0	546.2	546.4	546.6	546.8	547.0	547.2
152.5°	557.0	556.5	556.1	555.6	555.5	555.7	555.9	556.1	556.3	556.5	556.7
155°	570.5	569.9	569.3	568.7	568.5	568.7	568.9	569.1	569.3	569.6	569.9
157.5°	581.2	580.9	580.5	580.1	580.0	580.0	580.0	580.0	580.1	580.4	580.7
160°	588.2	587.6	587.0	586.4	586.2	586.3	586.4	586.5	586.6	587.0	587.4
162.5°	594.1	593.5	592.9	592.3	592.1	592.2	592.3	592.4	592.5	593.0	593.6
165°	602.0	601.4	600.8	600.2	599.9	600.0	600.1	600.2	600.3	600.9	601.6
167.5°	607.8	607.2	606.5	605.9	605.6	605.7	605.8	605.9	606.0	606.8	607.5
170°	611.1	610.3	609.6	608.8	608.5	608.6	608.7	608.8	608.9	609.8	610.6
172.5°	613.2	612.5	611.8	611.1	610.9	611.0	611.2	611.4	611.6	612.3	613.0
175°	615.7	615.1	614.5	613.9	613.6	613.7	613.8	613.9	614.0	614.8	615.6
177.5°	616.9	616.4	615.9	615.4	615.2	615.3	615.4	615.5	615.6	616.1	616.7
180°	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3	616.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	903.8	903.8	903.8	903.8	903.8	903.8	903.8
2.5°	945.2	947.7	952.9	951.1	953.5	954.7	956.0
5°	1021.6	1033.9	1039.3	1038.4	1046.5	1044.6	1042.7
7.5°	1107.8	1120.7	1127.9	1136.9	1142.2	1142.5	1147.0
10°	1156.6	1173.5	1180.4	1190.0	1196.2	1199.6	1199.2
12.5°	1194.1	1207.3	1222.7	1227.5	1235.8	1240.1	1238.5
15°	1239.1	1260.2	1276.3	1284.3	1294.7	1297.8	1302.0
17.5°	1279.3	1307.6	1326.5	1351.4	1360.9	1366.7	1363.2
20°	1309.7	1346.9	1365.7	1395.6	1412.1	1421.0	1417.9
22.5°	1345.6	1385.8	1420.7	1446.5	1471.7	1483.6	1486.0
25°	1407.1	1462.4	1513.4	1547.5	1578.6	1585.9	1602.0
27.5°	1475.9	1541.1	1595.6	1631.4	1653.1	1661.2	1666.3
30°	1519.1	1584.0	1625.1	1648.0	1655.0	1654.2	1653.5
32.5°	1540.3	1580.9	1588.8	1582.4	1566.6	1553.2	1539.2
35°	1510.4	1480.1	1434.7	1376.4	1333.5	1290.1	1285.9
37.5°	1358.4	1261.4	1186.1	1102.0	1053.4	1023.4	1002.6
40°	1215.3	1105.2	1013.9	942.9	893.4	873.9	854.7
42.5°	1060.1	954.8	873.9	814.7	777.5	755.8	740.5
45°	861.2	768.4	705.1	662.2	632.6	615.7	606.1
47.5°	705.7	637.0	583.3	552.3	531.9	518.8	518.8
50°	622.3	556.6	521.0	496.4	478.8	468.4	470.3
52.5°	548.3	499.3	468.8	448.2	435.2	428.8	428.6
55°	458.5	423.1	403.2	388.2	379.4	372.1	373.7
57.5°	392.1	362.3	349.0	336.6	330.4	327.5	323.4
60°	351.0	328.0	316.5	306.5	300.3	298.1	293.9
62.5°	314.5	296.4	285.2	277.0	271.6	270.7	267.4
65°	264.3	250.5	240.5	236.7	231.0	229.4	229.4
67.5°	217.9	208.0	200.3	196.7	194.2	194.6	192.7
70°	188.7	180.7	175.7	171.9	170.0	170.4	168.7
72.5°	165.1	156.1	151.8	149.5	146.9	147.9	147.3
75°	125.0	120.5	118.2	115.8	114.3	113.5	112.8
77.5°	91.8	87.8	86.0	84.7	84.9	83.1	84.5
80°	71.0	67.6	66.3	64.4	64.0	64.0	63.7
82.5°	51.9	50.0	49.2	47.6	46.9	47.5	46.5
85°	26.9	25.3	24.9	24.9	24.1	23.4	25.3
87.5°	11.6	10.5	10.5	10.3	10.4	10.1	9.6
90°	8.8	9.3	9.8	10.1	10.4	10.7	11.0
92.5°	8.8	9.3	9.7	9.8	10.0	10.1	10.2
95°	8.8	9.3	9.6	9.6	9.6	9.6	9.6
97.5°	13.9	11.0	9.6	9.6	9.6	9.6	9.6
100°	34.1	19.0	11.2	10.8	10.4	10.0	9.6
102.5°	92.8	90.0	85.1	78.2	71.3	64.3	57.5
105°	136.1	136.1	136.1	136.0	135.9	135.8	135.7
107.5°	172.4	172.4	172.3	172.0	171.7	171.4	171.1
110°	195.5	195.2	195.1	195.2	195.3	195.4	195.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	218.6	218.3	218.0	217.9	217.7	217.6	217.4
115°	253.7	253.3	252.8	252.2	251.6	251.0	250.3
117.5°	287.4	286.9	286.5	286.2	286.0	285.7	285.5
120°	309.6	309.4	309.0	308.5	308.0	307.5	307.0
122.5°	330.4	330.2	329.8	329.2	328.6	328.1	327.5
125°	360.6	360.2	359.8	359.5	359.2	358.9	358.6
127.5°	388.6	388.4	387.9	387.1	386.4	385.6	384.9
130°	406.6	406.3	405.9	405.4	404.9	404.3	403.8
132.5°	423.7	423.7	423.4	422.9	422.4	421.9	421.4
135°	448.5	448.3	447.9	447.3	446.7	446.1	445.5
137.5°	471.9	471.9	471.7	471.1	470.6	470.1	469.6
140°	486.3	486.5	486.3	485.6	485.0	484.4	483.8
142.5°	500.0	500.1	499.8	499.2	498.6	498.0	497.4
145°	519.8	519.9	519.6	519.0	518.4	517.8	517.2
147.5°	536.6	536.7	536.4	535.7	535.0	534.2	533.5
150°	547.4	547.6	547.3	546.5	545.7	544.9	544.1
152.5°	556.9	557.1	556.9	556.1	555.4	554.7	554.0
155°	570.2	570.5	570.2	569.4	568.6	567.7	566.9
157.5°	581.0	581.3	581.1	580.3	579.5	578.7	577.8
160°	587.8	588.2	588.0	587.2	586.4	585.6	584.8
162.5°	594.2	594.7	594.6	593.7	592.8	591.9	591.0
165°	602.2	602.8	602.7	601.9	601.0	600.2	599.4
167.5°	608.2	608.9	608.9	607.9	607.0	606.1	605.2
170°	611.5	612.3	612.2	611.3	610.4	609.5	608.5
172.5°	613.7	614.5	614.4	613.5	612.6	611.7	610.8
175°	616.4	617.2	617.2	616.3	615.4	614.5	613.6
177.5°	617.2	617.8	617.8	617.1	616.5	615.8	615.2
180°	616.3	616.3	616.3	616.3	616.3	616.3	616.3

(END OF REPORT)