

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: PORTFOLIO

Report Number: P245960

Luminaire Tested: **LD8B20D010 ER8B20827 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245960  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B20D010 ER8B20827 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2036.0 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

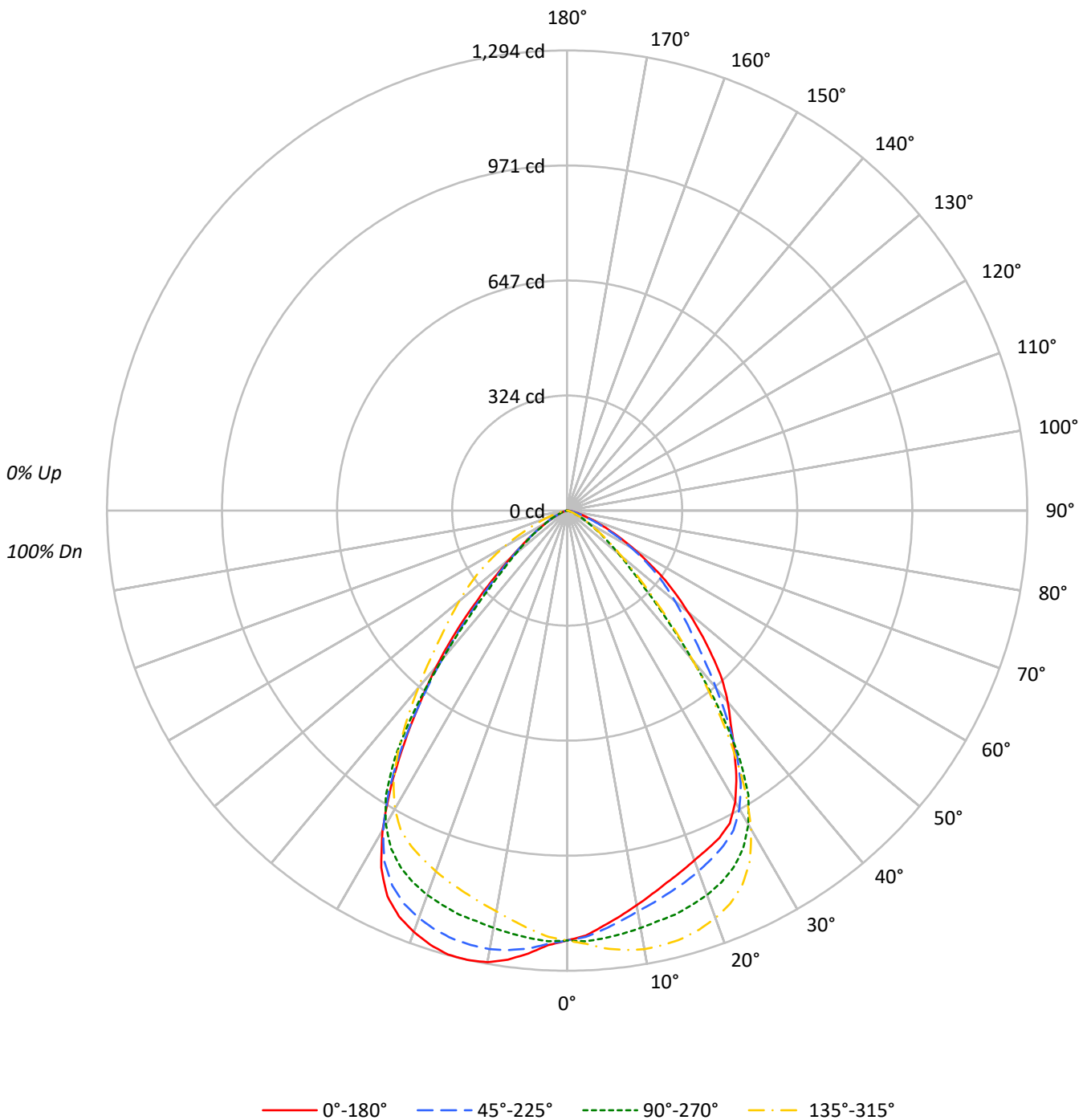
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	90°	180°	270°
0°	37272	37272	37272	37272
5°	36281	37359	38693	37359
10°	35279	37311	40380	37311
15°	34574	37533	41262	37533
20°	34338	37747	41367	37747
25°	34517	37671	40703	37671
30°	33666	36290	36946	36290
35°	30793	31659	30036	31659
40°	28270	22023	22997	22023
45°	25119	13436	15547	13436
50°	21262	8976	9969	8976
55°	17612	6123	6473	6123
60°	13432	4077	4114	4077
65°	9515	2539	2328	2539
70°	6861	1704	1542	1704
75°	4361	846	703	846
80°	3037	622	515	622
85°	2724	0	212	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.0	5.7
10°-20°	333.2	16.4
20°-30°	504.5	24.8
30°-40°	505.6	24.8
40°-50°	317.5	15.6
50°-60°	169.2	8.3
60°-70°	69.6	3.4
70°-80°	18.4	0.9
80°-90°	3.1	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	952.7	46.8
0°-40°	1458.3	71.6
0°-60°	1944.9	95.5
0°-90°	2036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2036.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1209	1209	1209	1209	1209	
5°	1172	1207	1250	1207	1172	111
15°	1083	1176	1292	1176	1083	306
25°	1014	1107	1196	1107	1014	465
35°	818	841	798	841	818	512
45°	576	308	356	308	576	443
55°	328	114	120	114	328	292
65°	130	35	32	35	130	135
75°	37	7	6	7	37	41
85°	8	0	1	0	8	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7
2.5°	1196.3	1195.1	1194.5	1195.7	1196.3	1198.7	1198.1	1199.3	1199.3	1199.9	1201.0
5°	1172.1	1171.5	1172.1	1172.1	1174.5	1176.8	1176.3	1178.0	1179.2	1182.2	1183.3
7.5°	1149.7	1149.7	1149.1	1151.5	1152.6	1156.2	1155.6	1158.5	1160.3	1163.3	1167.4
10°	1126.7	1126.7	1127.3	1129.0	1129.6	1134.9	1134.9	1139.1	1141.4	1144.4	1149.7
12.5°	1104.3	1104.3	1107.8	1106.6	1109.0	1113.1	1114.9	1119.0	1122.5	1128.4	1133.8
15°	1083.0	1083.0	1084.2	1087.1	1088.9	1094.2	1097.2	1101.9	1106.0	1111.9	1119.6
17.5°	1064.7	1064.1	1064.7	1068.2	1071.8	1076.5	1078.9	1084.8	1088.9	1096.6	1103.7
20°	1046.4	1047.6	1047.6	1050.5	1052.9	1058.8	1061.2	1067.7	1072.4	1079.4	1087.7
22.5°	1030.5	1029.9	1029.9	1034.0	1035.8	1041.1	1043.4	1049.3	1054.7	1060.6	1068.2
25°	1014.5	1013.3	1015.7	1016.3	1017.5	1023.4	1025.2	1029.3	1034.6	1039.9	1047.6
27.5°	990.9	989.8	990.3	992.7	994.5	999.2	1000.4	1004.5	1008.6	1013.3	1019.9
30°	945.5	944.3	943.7	947.9	949.6	953.1	954.9	962.0	963.2	968.5	973.2
32.5°	885.3	884.7	885.9	889.4	891.2	895.9	898.3	902.4	905.3	908.3	913.0
35°	818.0	816.8	818.0	821.6	821.6	825.7	827.5	829.2	828.6	829.2	828.0
37.5°	755.5	754.8	755.5	757.2	755.5	757.2	755.5	751.9	745.4	738.3	731.2
40°	702.3	702.9	699.4	701.7	695.2	694.1	687.6	678.7	665.7	651.6	631.5
42.5°	645.7	643.9	641.5	642.7	637.4	633.3	622.6	611.4	594.9	571.3	547.1
45°	576.0	575.4	574.3	573.7	570.1	566.0	557.1	544.2	525.9	501.7	472.7
47.5°	508.2	506.4	506.4	507.0	502.8	502.3	495.2	484.0	468.0	444.4	414.3
50°	443.2	442.6	443.8	446.2	443.2	442.1	437.3	429.7	415.5	395.4	367.1
52.5°	384.8	384.2	385.4	388.3	387.2	388.3	383.6	377.7	368.3	348.8	324.0
55°	327.6	327.6	327.6	331.1	331.1	331.1	328.7	325.2	316.3	302.2	279.2
57.5°	267.9	268.5	272.1	272.7	272.1	273.3	272.7	269.1	263.2	253.2	235.5
60°	217.8	217.8	219.6	221.3	220.7	221.3	221.3	219.6	213.7	205.4	191.2
62.5°	172.3	174.1	172.9	174.1	176.5	174.1	172.9	171.7	167.6	162.3	150.5
65°	130.4	131.6	131.6	132.2	131.0	131.6	129.3	127.5	125.1	119.2	111.6
67.5°	99.2	99.2	99.2	99.2	98.6	98.0	97.4	95.6	91.5	89.1	80.8
70°	76.1	72.6	72.6	72.6	72.6	73.2	71.4	69.1	67.9	63.7	57.8
72.5°	50.7	51.9	50.7	50.7	49.6	50.2	47.8	46.6	45.5	43.1	39.5
75°	36.6	33.6	34.8	35.4	33.6	34.8	32.5	30.1	30.1	28.3	26.6
77.5°	23.6	23.0	23.6	24.2	23.6	23.0	21.8	20.6	20.6	20.1	18.3
80°	17.1	16.5	16.5	16.5	15.9	16.5	15.4	15.4	14.2	13.6	12.4
82.5°	11.2	11.2	10.6	11.2	10.6	11.2	9.4	9.4	9.4	8.8	7.7
85°	7.7	6.5	6.5	7.1	5.9	7.1	6.5	5.9	5.3	5.3	4.7
87.5°	3.5	4.1	3.5	4.1	3.5	3.5	4.1	3.5	3.5	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7
2.5°	1202.8	1203.4	1203.4	1205.8	1206.9	1207.5	1207.5	1212.3	1210.5	1211.7	1212.8
5°	1185.7	1189.2	1190.4	1190.4	1196.9	1199.3	1201.6	1206.9	1207.5	1211.1	1215.2
7.5°	1169.2	1173.3	1175.7	1181.0	1185.1	1189.2	1196.3	1199.9	1203.4	1208.1	1213.4
10°	1153.2	1158.0	1162.7	1166.8	1173.3	1178.6	1183.3	1191.6	1195.7	1202.2	1209.3
12.5°	1137.9	1144.4	1148.5	1155.6	1162.7	1167.4	1174.5	1182.2	1188.6	1195.1	1203.4
15°	1124.3	1132.0	1136.7	1144.4	1152.1	1158.5	1166.2	1175.7	1180.4	1188.1	1195.7
17.5°	1109.5	1117.8	1123.7	1130.8	1140.3	1147.3	1153.8	1163.3	1169.2	1177.4	1186.3
20°	1094.2	1102.5	1109.5	1116.6	1126.1	1133.2	1140.8	1150.3	1156.8	1165.0	1172.1
22.5°	1075.9	1083.6	1091.3	1099.5	1109.0	1114.9	1123.7	1132.0	1139.1	1146.7	1153.8
25°	1052.3	1061.8	1067.7	1075.3	1083.0	1089.5	1098.9	1107.2	1113.1	1120.2	1126.7
27.5°	1024.6	1031.7	1036.4	1042.9	1050.5	1056.4	1063.5	1071.8	1077.7	1084.2	1088.9
30°	977.3	983.9	988.0	992.7	1000.4	1005.7	1011.6	1019.2	1023.4	1028.1	1032.2
32.5°	915.4	920.7	923.1	926.6	931.9	937.2	942.0	948.4	950.2	953.1	953.1
35°	825.7	826.9	826.3	827.5	829.8	832.8	836.9	841.0	843.4	843.4	841.6
37.5°	720.6	713.6	705.9	700.0	698.2	697.0	699.4	701.1	703.5	704.7	701.7
40°	611.4	595.5	578.4	563.0	552.4	547.7	545.9	547.1	547.1	551.2	551.2
42.5°	517.6	492.8	467.4	444.4	429.1	417.3	412.0	412.0	412.5	415.5	417.3
45°	439.7	408.4	378.9	353.5	332.3	316.9	309.9	308.1	307.5	308.7	312.8
47.5°	380.1	347.6	316.9	285.7	263.2	247.9	241.4	239.0	236.7	239.0	239.6
50°	333.5	299.8	267.4	236.1	212.5	198.9	190.6	187.1	186.5	186.5	187.7
52.5°	291.0	259.7	227.2	195.4	170.6	157.6	149.9	148.1	145.8	148.1	148.1
55°	250.8	219.6	187.7	157.6	136.9	123.4	116.3	113.9	112.7	114.5	114.5
57.5°	207.2	180.6	151.1	123.9	103.3	93.8	88.5	85.6	85.0	86.2	85.0
60°	170.0	147.6	122.2	97.4	81.5	71.4	67.3	66.1	64.9	66.1	66.1
62.5°	134.6	115.7	95.0	76.1	62.6	55.5	50.7	50.7	50.2	50.2	50.7
65°	99.7	85.0	70.2	54.3	43.7	38.4	34.8	34.8	34.2	34.8	34.2
67.5°	72.6	62.6	50.7	39.5	31.3	28.3	26.0	24.2	25.4	24.2	23.6
70°	53.1	44.8	36.6	30.1	24.2	21.3	19.5	18.9	17.7	17.7	17.7
72.5°	35.4	30.1	24.8	19.5	15.9	13.0	12.4	11.2	10.0	10.6	11.8
75°	23.6	20.1	17.7	14.2	10.6	10.6	7.1	7.1	5.9	7.1	5.3
77.5°	16.5	13.6	10.6	8.8	7.1	6.5	4.7	4.7	4.1	4.1	4.1
80°	11.8	10.0	7.7	6.5	4.7	4.7	4.1	3.5	2.9	2.9	3.5
82.5°	7.1	5.3	5.3	4.7	2.9	2.4	1.8	2.4	1.2	1.2	1.2
85°	4.1	3.5	2.9	1.8	1.2	1.2	0.6	0.0	0.6	0.6	0.0
87.5°	2.4	1.2	1.2	0.6	0.0	0.6	0.6	0.0	0.0	0.0	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7
2.5°	1215.8	1215.2	1216.4	1216.4	1219.9	1219.3	1221.1	1221.1	1219.9	1220.5	1222.9
5°	1219.9	1221.7	1225.2	1228.2	1233.5	1235.9	1238.8	1241.8	1242.4	1244.1	1245.9
7.5°	1219.9	1225.8	1230.0	1235.3	1242.4	1246.5	1253.0	1258.3	1260.6	1263.6	1267.1
10°	1217.6	1223.5	1231.1	1237.0	1245.9	1252.4	1258.9	1267.1	1270.7	1275.4	1280.1
12.5°	1212.8	1219.3	1227.6	1235.3	1245.3	1251.2	1259.5	1267.1	1272.5	1278.9	1284.3
15°	1205.8	1213.4	1221.1	1228.8	1239.4	1246.5	1254.2	1263.0	1268.3	1275.4	1280.1
17.5°	1194.5	1202.8	1209.9	1217.0	1227.0	1235.3	1242.4	1250.6	1255.9	1261.8	1268.3
20°	1181.0	1188.6	1196.3	1202.2	1212.3	1219.3	1227.0	1234.7	1238.8	1240.0	1250.0
22.5°	1163.9	1169.2	1175.1	1184.5	1190.4	1196.9	1204.0	1211.1	1215.2	1221.7	1225.2
25°	1135.5	1140.8	1147.3	1151.5	1158.5	1163.9	1170.9	1178.6	1181.0	1185.7	1189.2
27.5°	1096.0	1098.9	1101.9	1105.4	1109.5	1112.5	1116.6	1120.2	1122.5	1124.9	1127.3
30°	1033.4	1033.4	1033.4	1031.1	1032.8	1034.6	1035.2	1034.6	1034.6	1034.0	1034.0
32.5°	950.8	946.1	940.8	936.0	934.3	931.9	930.7	929.0	926.0	924.2	924.8
35°	839.2	828.6	822.1	816.2	811.5	808.0	806.2	804.4	803.8	801.5	799.1
37.5°	700.0	692.3	687.6	684.0	679.9	676.4	676.9	677.5	679.3	678.1	678.7
40°	552.4	550.6	552.4	548.3	547.1	548.3	551.2	555.4	557.7	560.1	564.2
42.5°	420.2	423.2	427.3	427.3	429.1	431.4	435.0	441.5	445.0	449.1	453.9
45°	316.3	319.9	325.2	327.0	328.1	331.1	335.2	340.5	342.9	346.4	350.6
47.5°	243.8	246.1	249.0	252.0	255.0	256.1	260.3	260.3	263.2	265.6	266.8
50°	190.0	192.4	194.8	196.5	197.7	199.5	200.7	202.4	203.0	204.2	204.8
52.5°	148.7	151.7	151.7	152.8	154.6	156.4	155.8	156.4	157.0	157.0	158.8
55°	116.3	116.3	118.0	118.0	119.2	118.6	119.2	119.2	119.2	119.2	119.8
57.5°	86.7	87.4	89.1	87.9	87.4	88.5	87.4	88.5	87.9	89.1	87.4
60°	66.7	66.7	67.3	67.3	67.9	67.9	67.9	67.3	67.3	66.7	66.7
62.5°	50.2	50.7	51.4	50.7	50.7	50.7	50.2	50.2	49.6	49.0	49.0
65°	33.6	33.1	34.2	33.1	33.6	33.6	33.1	33.6	31.9	32.5	31.9
67.5°	24.2	23.6	23.0	23.6	23.0	22.4	22.4	23.0	23.6	21.8	21.8
70°	15.9	16.5	15.9	16.5	17.1	17.1	16.5	15.9	16.5	15.4	15.9
72.5°	10.0	10.0	10.0	10.0	10.0	10.6	10.6	10.6	9.4	9.4	8.8
75°	4.7	6.5	5.3	4.7	6.5	6.5	5.9	5.9	5.3	5.3	5.3
77.5°	4.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.9	3.5	2.9
80°	2.4	2.4	2.4	1.8	2.4	2.4	2.9	2.4	2.4	1.8	2.9
82.5°	1.2	1.2	1.2	0.0	0.6	1.2	1.2	0.6	1.2	1.2	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P245960

CATALOG NUMBER: LD8B20D010 ER8B20827 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7
2.5°	1222.3	1221.7	1222.3	1222.9	1222.3	1221.7	1222.3	1222.9	1220.5	1219.9	1221.1
5°	1248.3	1248.3	1249.4	1250.0	1249.4	1248.3	1248.3	1245.9	1244.1	1242.4	1241.8
7.5°	1270.7	1271.9	1273.0	1273.6	1273.0	1271.9	1270.7	1267.1	1263.6	1260.6	1258.3
10°	1284.3	1286.0	1288.4	1289.6	1288.4	1286.0	1284.3	1280.1	1275.4	1270.7	1267.1
12.5°	1290.2	1291.9	1294.9	1294.3	1294.9	1291.9	1290.2	1284.3	1278.9	1272.5	1267.1
15°	1286.0	1288.4	1291.3	1292.5	1291.3	1288.4	1286.0	1280.1	1275.4	1268.3	1263.0
17.5°	1273.0	1276.6	1278.4	1280.1	1278.4	1276.6	1273.0	1268.3	1261.8	1255.9	1250.6
20°	1255.3	1257.7	1260.1	1260.6	1260.1	1257.7	1255.3	1250.0	1240.0	1238.8	1234.7
22.5°	1230.0	1231.7	1237.0	1235.3	1237.0	1231.7	1230.0	1225.2	1221.7	1215.2	1211.1
25°	1193.4	1195.1	1195.7	1196.3	1195.7	1195.1	1193.4	1189.2	1185.7	1181.0	1178.6
27.5°	1130.2	1130.2	1131.4	1132.0	1131.4	1130.2	1130.2	1127.3	1124.9	1122.5	1120.2
30°	1034.6	1034.6	1034.6	1037.6	1034.6	1034.6	1034.6	1034.0	1034.0	1034.6	1034.6
32.5°	924.2	923.1	921.9	923.1	921.9	923.1	924.2	924.8	924.2	926.0	929.0
35°	799.1	798.5	800.3	797.9	800.3	798.5	799.1	799.1	801.5	803.8	804.4
37.5°	679.3	678.1	680.5	678.1	680.5	678.1	679.3	678.7	678.1	679.3	677.5
40°	565.4	566.6	566.6	571.3	566.6	566.6	565.4	564.2	560.1	557.7	555.4
42.5°	456.2	459.8	458.6	462.1	458.6	459.8	456.2	453.9	449.1	445.0	441.5
45°	352.9	355.3	355.3	356.5	355.3	355.3	352.9	350.6	346.4	342.9	340.5
47.5°	270.9	270.9	270.9	271.5	270.9	270.9	270.9	266.8	265.6	263.2	260.3
50°	206.0	206.6	207.2	207.8	207.2	206.6	206.0	204.8	204.2	203.0	202.4
52.5°	158.2	158.8	157.6	158.8	157.6	158.8	158.2	158.8	157.0	157.0	156.4
55°	119.8	119.2	119.8	120.4	119.8	119.2	119.8	119.8	119.2	119.2	119.2
57.5°	87.9	86.7	86.7	86.7	86.7	86.7	87.9	87.4	89.1	87.9	88.5
60°	65.5	66.1	66.1	66.7	66.1	66.1	65.5	66.7	66.7	67.3	67.3
62.5°	48.4	50.2	49.0	50.2	49.0	50.2	48.4	49.0	49.0	49.6	50.2
65°	31.3	31.3	31.3	31.9	31.3	31.3	31.3	31.9	32.5	31.9	33.6
67.5°	21.3	21.8	23.0	22.4	23.0	21.8	21.3	21.8	21.8	23.6	23.0
70°	17.1	15.4	15.4	17.1	15.4	15.4	17.1	15.9	15.4	16.5	15.9
72.5°	10.0	8.8	10.0	10.0	10.0	8.8	10.0	8.8	9.4	9.4	10.6
75°	5.3	4.7	4.1	5.9	4.1	4.7	5.3	5.3	5.3	5.3	5.9
77.5°	3.5	2.9	4.1	4.1	4.1	2.9	3.5	2.9	3.5	2.9	3.5
80°	1.8	2.4	1.8	2.9	1.8	2.4	1.8	2.9	1.8	2.4	2.4
82.5°	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.6	1.2	1.2	0.6
85°	0.0	1.2	0.6	0.6	0.6	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.0	0.0	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P245960

CATALOG NUMBER: LD8B20D010 ER8B20827 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7
2.5°	1221.1	1219.3	1219.9	1216.4	1216.4	1215.2	1215.8	1212.8	1211.7	1210.5	1212.3
5°	1238.8	1235.9	1233.5	1228.2	1225.2	1221.7	1219.9	1215.2	1211.1	1207.5	1206.9
7.5°	1253.0	1246.5	1242.4	1235.3	1230.0	1225.8	1219.9	1213.4	1208.1	1203.4	1199.9
10°	1258.9	1252.4	1245.9	1237.0	1231.1	1223.5	1217.6	1209.3	1202.2	1195.7	1191.6
12.5°	1259.5	1251.2	1245.3	1235.3	1227.6	1219.3	1212.8	1203.4	1195.1	1188.6	1182.2
15°	1254.2	1246.5	1239.4	1228.8	1221.1	1213.4	1205.8	1195.7	1188.1	1180.4	1175.7
17.5°	1242.4	1235.3	1227.0	1217.0	1209.9	1202.8	1194.5	1186.3	1177.4	1169.2	1163.3
20°	1227.0	1219.3	1212.3	1202.2	1196.3	1188.6	1181.0	1172.1	1165.0	1156.8	1150.3
22.5°	1204.0	1196.9	1190.4	1184.5	1175.1	1169.2	1163.9	1153.8	1146.7	1139.1	1132.0
25°	1170.9	1163.9	1158.5	1151.5	1147.3	1140.8	1135.5	1126.7	1120.2	1113.1	1107.2
27.5°	1116.6	1112.5	1109.5	1105.4	1101.9	1098.9	1096.0	1088.9	1084.2	1077.7	1071.8
30°	1035.2	1034.6	1032.8	1031.1	1033.4	1033.4	1033.4	1032.2	1028.1	1023.4	1019.2
32.5°	930.7	931.9	934.3	936.0	940.8	946.1	950.8	953.1	953.1	950.2	948.4
35°	806.2	808.0	811.5	816.2	822.1	828.6	839.2	841.6	843.4	843.4	841.0
37.5°	676.9	676.4	679.9	684.0	687.6	692.3	700.0	701.7	704.7	703.5	701.1
40°	551.2	548.3	547.1	548.3	552.4	550.6	552.4	551.2	551.2	547.1	547.1
42.5°	435.0	431.4	429.1	427.3	427.3	423.2	420.2	417.3	415.5	412.5	412.0
45°	335.2	331.1	328.1	327.0	325.2	319.9	316.3	312.8	308.7	307.5	308.1
47.5°	260.3	256.1	255.0	252.0	249.0	246.1	243.8	239.6	239.0	236.7	239.0
50°	200.7	199.5	197.7	196.5	194.8	192.4	190.0	187.7	186.5	186.5	187.1
52.5°	155.8	156.4	154.6	152.8	151.7	151.7	148.7	148.1	148.1	145.8	148.1
55°	119.2	118.6	119.2	118.0	118.0	116.3	116.3	114.5	114.5	112.7	113.9
57.5°	87.4	88.5	87.4	87.9	89.1	87.4	86.7	85.0	86.2	85.0	85.6
60°	67.9	67.9	67.9	67.3	67.3	66.7	66.7	66.1	66.1	64.9	66.1
62.5°	50.2	50.7	50.7	50.7	51.4	50.7	50.2	50.7	50.2	50.2	50.7
65°	33.1	33.6	33.6	33.1	34.2	33.1	33.6	34.2	34.8	34.2	34.8
67.5°	22.4	22.4	23.0	23.6	23.0	23.6	24.2	23.6	24.2	25.4	24.2
70°	16.5	17.1	17.1	16.5	15.9	16.5	15.9	17.7	17.7	17.7	18.9
72.5°	10.6	10.6	10.0	10.0	10.0	10.0	10.0	11.8	10.6	10.0	11.2
75°	5.9	6.5	6.5	4.7	5.3	6.5	4.7	5.3	7.1	5.9	7.1
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.7	4.1	4.1	4.1	4.7
80°	2.9	2.4	2.4	1.8	2.4	2.4	2.4	3.5	2.9	2.9	3.5
82.5°	1.2	1.2	0.6	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P245960

CATALOG NUMBER: LD8B20D010 ER8B20827 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7
2.5°	1207.5	1207.5	1206.9	1205.8	1203.4	1203.4	1202.8	1201.0	1199.9	1199.3	1199.3
5°	1201.6	1199.3	1196.9	1190.4	1190.4	1189.2	1185.7	1183.3	1182.2	1179.2	1178.0
7.5°	1196.3	1189.2	1185.1	1181.0	1175.7	1173.3	1169.2	1167.4	1163.3	1160.3	1158.5
10°	1183.3	1178.6	1173.3	1166.8	1162.7	1158.0	1153.2	1149.7	1144.4	1141.4	1139.1
12.5°	1174.5	1167.4	1162.7	1155.6	1148.5	1144.4	1137.9	1133.8	1128.4	1122.5	1119.0
15°	1166.2	1158.5	1152.1	1144.4	1136.7	1132.0	1124.3	1119.6	1111.9	1106.0	1101.9
17.5°	1153.8	1147.3	1140.3	1130.8	1123.7	1117.8	1109.5	1103.7	1096.6	1088.9	1084.8
20°	1140.8	1133.2	1126.1	1116.6	1109.5	1102.5	1094.2	1087.7	1079.4	1072.4	1067.7
22.5°	1123.7	1114.9	1109.0	1099.5	1091.3	1083.6	1075.9	1068.2	1060.6	1054.7	1049.3
25°	1098.9	1089.5	1083.0	1075.3	1067.7	1061.8	1052.3	1047.6	1039.9	1034.6	1029.3
27.5°	1063.5	1056.4	1050.5	1042.9	1036.4	1031.7	1024.6	1019.9	1013.3	1008.6	1004.5
30°	1011.6	1005.7	1000.4	992.7	988.0	983.9	977.3	973.2	968.5	963.2	962.0
32.5°	942.0	937.2	931.9	926.6	923.1	920.7	915.4	913.0	908.3	905.3	902.4
35°	836.9	832.8	829.8	827.5	826.3	826.9	825.7	828.0	829.2	828.6	829.2
37.5°	699.4	697.0	698.2	700.0	705.9	713.6	720.6	731.2	738.3	745.4	751.9
40°	545.9	547.7	552.4	563.0	578.4	595.5	611.4	631.5	651.6	665.7	678.7
42.5°	412.0	417.3	429.1	444.4	467.4	492.8	517.6	547.1	571.3	594.9	611.4
45°	309.9	316.9	332.3	353.5	378.9	408.4	439.7	472.7	501.7	525.9	544.2
47.5°	241.4	247.9	263.2	285.7	316.9	347.6	380.1	414.3	444.4	468.0	484.0
50°	190.6	198.9	212.5	236.1	267.4	299.8	333.5	367.1	395.4	415.5	429.7
52.5°	149.9	157.6	170.6	195.4	227.2	259.7	291.0	324.0	348.8	368.3	377.7
55°	116.3	123.4	136.9	157.6	187.7	219.6	250.8	279.2	302.2	316.3	325.2
57.5°	88.5	93.8	103.3	123.9	151.1	180.6	207.2	235.5	253.2	263.2	269.1
60°	67.3	71.4	81.5	97.4	122.2	147.6	170.0	191.2	205.4	213.7	219.6
62.5°	50.7	55.5	62.6	76.1	95.0	115.7	134.6	150.5	162.3	167.6	171.7
65°	34.8	38.4	43.7	54.3	70.2	85.0	99.7	111.6	119.2	125.1	127.5
67.5°	26.0	28.3	31.3	39.5	50.7	62.6	72.6	80.8	89.1	91.5	95.6
70°	19.5	21.3	24.2	30.1	36.6	44.8	53.1	57.8	63.7	67.9	69.1
72.5°	12.4	13.0	15.9	19.5	24.8	30.1	35.4	39.5	43.1	45.5	46.6
75°	7.1	10.6	10.6	14.2	17.7	20.1	23.6	26.6	28.3	30.1	30.1
77.5°	4.7	6.5	7.1	8.8	10.6	13.6	16.5	18.3	20.1	20.6	20.6
80°	4.1	4.7	4.7	6.5	7.7	10.0	11.8	12.4	13.6	14.2	15.4
82.5°	1.8	2.4	2.9	4.7	5.3	5.3	7.1	7.7	8.8	9.4	9.4
85°	0.6	1.2	1.2	1.8	2.9	3.5	4.1	4.7	5.3	5.3	5.9
87.5°	0.6	0.6	0.0	0.6	1.2	1.2	2.4	2.4	2.4	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P245960

CATALOG NUMBER: LD8B20D010 ER8B20827 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7	1208.7
2.5°	1198.1	1198.7	1196.3	1195.7	1194.5	1195.1	1196.3
5°	1176.3	1176.8	1174.5	1172.1	1172.1	1171.5	1172.1
7.5°	1155.6	1156.2	1152.6	1151.5	1149.1	1149.7	1149.7
10°	1134.9	1134.9	1129.6	1129.0	1127.3	1126.7	1126.7
12.5°	1114.9	1113.1	1109.0	1106.6	1107.8	1104.3	1104.3
15°	1097.2	1094.2	1088.9	1087.1	1084.2	1083.0	1083.0
17.5°	1078.9	1076.5	1071.8	1068.2	1064.7	1064.1	1064.7
20°	1061.2	1058.8	1052.9	1050.5	1047.6	1047.6	1046.4
22.5°	1043.4	1041.1	1035.8	1034.0	1029.9	1029.9	1030.5
25°	1025.2	1023.4	1017.5	1016.3	1015.7	1013.3	1014.5
27.5°	1000.4	999.2	994.5	992.7	990.3	989.8	990.9
30°	954.9	953.1	949.6	947.9	943.7	944.3	945.5
32.5°	898.3	895.9	891.2	889.4	885.9	884.7	885.3
35°	827.5	825.7	821.6	821.6	818.0	816.8	818.0
37.5°	755.5	757.2	755.5	757.2	755.5	754.8	755.5
40°	687.6	694.1	695.2	701.7	699.4	702.9	702.3
42.5°	622.6	633.3	637.4	642.7	641.5	643.9	645.7
45°	557.1	566.0	570.1	573.7	574.3	575.4	576.0
47.5°	495.2	502.3	502.8	507.0	506.4	506.4	508.2
50°	437.3	442.1	443.2	446.2	443.8	442.6	443.2
52.5°	383.6	388.3	387.2	388.3	385.4	384.2	384.8
55°	328.7	331.1	331.1	331.1	327.6	327.6	327.6
57.5°	272.7	273.3	272.1	272.7	272.1	268.5	267.9
60°	221.3	221.3	220.7	221.3	219.6	217.8	217.8
62.5°	172.9	174.1	176.5	174.1	172.9	174.1	172.3
65°	129.3	131.6	131.0	132.2	131.6	131.6	130.4
67.5°	97.4	98.0	98.6	99.2	99.2	99.2	99.2
70°	71.4	73.2	72.6	72.6	72.6	72.6	76.1
72.5°	47.8	50.2	49.6	50.7	50.7	51.9	50.7
75°	32.5	34.8	33.6	35.4	34.8	33.6	36.6
77.5°	21.8	23.0	23.6	24.2	23.6	23.0	23.6
80°	15.4	16.5	15.9	16.5	16.5	16.5	17.1
82.5°	9.4	11.2	10.6	11.2	10.6	11.2	11.2
85°	6.5	7.1	5.9	7.1	6.5	6.5	7.7
87.5°	4.1	3.5	3.5	4.1	3.5	4.1	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)