

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: P245864

Luminaire Tested: **LD8B20D010 ER8B20940 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245864  
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 ER8B20940 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1808.0 lumens  
Efficiency: N/A  
Efficacy: 84.9 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

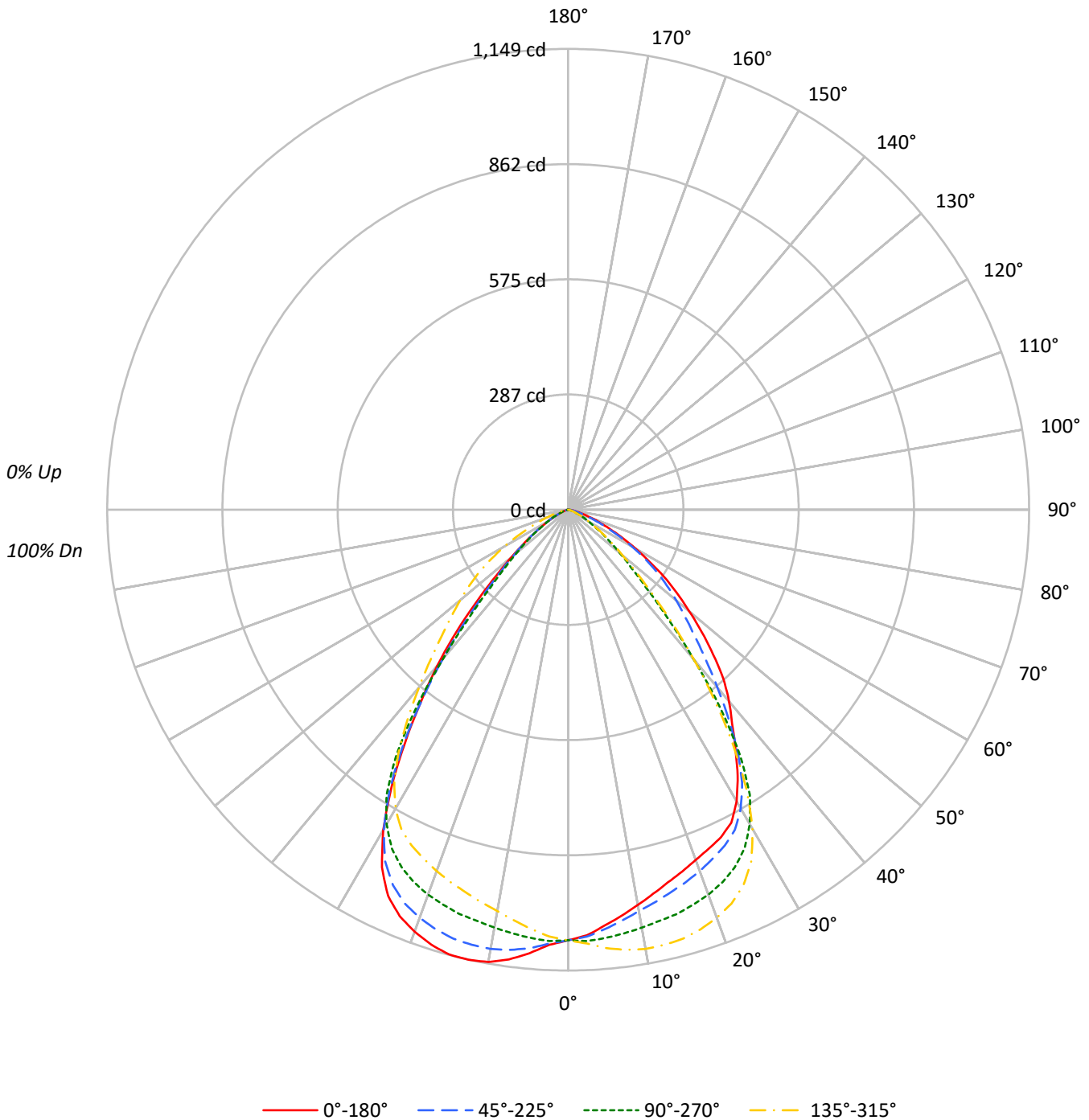
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	33100	33100	33100	33100
5°	32220	33177	34359	33177
10°	31328	33131	35855	33131
15°	30701	33329	36642	33329
20°	30492	33521	36737	33521
25°	30652	33453	36147	33453
30°	29895	32228	32808	32228
35°	27345	28113	26675	28113
40°	25106	19555	20421	19555
45°	22306	11931	13807	11931
50°	18882	7968	8851	7968
55°	15639	5441	5747	5441
60°	11927	3620	3651	3620
65°	8449	2255	2065	2255
70°	6095	1515	1370	1515
75°	3872	751	620	751
80°	2699	550	462	550
85°	2406	0	177	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.2	5.7
10°-20°	295.8	16.4
20°-30°	448.0	24.8
30°-40°	449.0	24.8
40°-50°	281.9	15.6
50°-60°	150.2	8.3
60°-70°	61.8	3.4
70°-80°	16.3	0.9
80°-90°	2.8	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°	846.0	46.8
0°-40°	1295.0	71.6
0°-60°	1727.1	95.5
0°-90°	1808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1808.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1073	1073	1073	1073	1073	
5°	1041	1072	1110	1072	1041	98
15°	962	1044	1148	1044	962	272
25°	901	983	1062	983	901	413
35°	726	747	709	747	726	455
45°	512	274	317	274	512	393
55°	291	101	107	101	291	259
65°	116	31	28	31	116	120
75°	32	6	5	6	32	37
85°	7	0	0	0	7	7
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°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4
2.5°	1062.4	1061.3	1060.8	1061.8	1062.4	1064.4	1063.9	1065.0	1065.0	1065.5	1066.5
5°	1040.9	1040.3	1040.9	1040.9	1043.0	1045.0	1044.5	1046.1	1047.1	1049.8	1050.8
7.5°	1021.0	1021.0	1020.4	1022.5	1023.6	1026.7	1026.2	1028.8	1030.4	1033.0	1036.7
10°	1000.5	1000.5	1001.0	1002.6	1003.1	1007.8	1007.8	1011.5	1013.6	1016.2	1021.0
12.5°	980.6	980.6	983.7	982.7	984.8	988.4	990.0	993.7	996.8	1002.1	1006.8
15°	961.7	961.7	962.8	965.4	967.0	971.7	974.3	978.5	982.2	987.4	994.2
17.5°	945.5	945.0	945.5	948.6	951.8	956.0	958.0	963.3	967.0	973.8	980.1
20°	929.2	930.3	930.3	932.9	935.0	940.2	942.3	948.1	952.3	958.6	965.9
22.5°	915.1	914.6	914.6	918.2	919.8	924.5	926.6	931.8	936.6	941.8	948.6
25°	900.9	899.9	902.0	902.5	903.5	908.8	910.4	914.0	918.7	923.5	930.3
27.5°	880.0	878.9	879.4	881.5	883.1	887.3	888.3	892.0	895.7	899.9	905.6
30°	839.6	838.6	838.0	841.7	843.3	846.4	848.0	854.3	855.3	860.0	864.2
32.5°	786.1	785.6	786.7	789.8	791.4	795.6	797.7	801.3	804.0	806.6	810.8
35°	726.4	725.3	726.4	729.6	729.6	733.2	734.8	736.3	735.8	736.3	735.3
37.5°	670.9	670.3	670.9	672.4	670.9	672.4	670.9	667.7	661.9	655.6	649.3
40°	623.7	624.2	621.1	623.2	617.4	616.3	610.6	602.7	591.2	578.6	560.8
42.5°	573.4	571.8	569.7	570.7	566.0	562.3	552.9	543.0	528.3	507.3	485.8
45°	511.5	511.0	509.9	509.4	506.3	502.6	494.7	483.2	467.0	445.5	419.8
47.5°	451.2	449.7	449.7	450.2	446.5	446.0	439.7	429.8	415.6	394.6	367.9
50°	393.6	393.1	394.1	396.2	393.6	392.6	388.4	381.5	369.0	351.2	326.0
52.5°	341.7	341.2	342.2	344.9	343.8	344.9	340.7	335.4	327.0	309.7	287.7
55°	290.9	290.9	290.9	294.0	294.0	294.0	291.9	288.8	280.9	268.3	247.9
57.5°	237.9	238.5	241.6	242.1	241.6	242.7	242.1	239.0	233.8	224.8	209.1
60°	193.4	193.4	195.0	196.5	196.0	196.5	196.5	195.0	189.7	182.4	169.8
62.5°	153.0	154.6	153.6	154.6	156.7	154.6	153.6	152.5	148.8	144.1	133.6
65°	115.8	116.9	116.9	117.4	116.3	116.9	114.8	113.2	111.1	105.9	99.1
67.5°	88.1	88.1	88.1	88.1	87.5	87.0	86.5	84.9	81.2	79.1	71.8
70°	67.6	64.5	64.5	64.5	64.5	65.0	63.4	61.3	60.3	56.6	51.4
72.5°	45.1	46.1	45.1	45.1	44.0	44.5	42.5	41.4	40.4	38.3	35.1
75°	32.5	29.9	30.9	31.5	29.9	30.9	28.8	26.7	26.7	25.2	23.6
77.5°	21.0	20.5	21.0	21.5	21.0	20.5	19.4	18.3	18.3	17.8	16.2
80°	15.2	14.7	14.7	14.7	14.2	14.7	13.6	13.6	12.6	12.1	11.0
82.5°	10.0	10.0	9.4	10.0	9.4	10.0	8.4	8.4	8.4	7.9	6.8
85°	6.8	5.8	5.8	6.3	5.2	6.3	5.8	5.2	4.7	4.7	4.2
87.5°	3.1	3.7	3.1	3.7	3.1	3.1	3.7	3.1	3.1	2.1	2.1
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°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4
2.5°	1068.1	1068.6	1068.6	1070.7	1071.8	1072.3	1072.3	1076.5	1074.9	1076.0	1077.0
5°	1052.9	1056.1	1057.1	1057.1	1062.9	1065.0	1067.1	1071.8	1072.3	1075.4	1079.1
7.5°	1038.2	1041.9	1044.0	1048.7	1052.4	1056.1	1062.4	1065.5	1068.6	1072.8	1077.5
10°	1024.1	1028.3	1032.5	1036.1	1041.9	1046.6	1050.8	1058.1	1061.8	1067.6	1073.9
12.5°	1010.5	1016.2	1019.9	1026.2	1032.5	1036.7	1043.0	1049.8	1055.5	1061.3	1068.6
15°	998.4	1005.2	1009.4	1016.2	1023.0	1028.8	1035.6	1044.0	1048.2	1055.0	1061.8
17.5°	985.3	992.7	997.9	1004.2	1012.6	1018.8	1024.6	1033.0	1038.2	1045.6	1053.4
20°	971.7	979.0	985.3	991.6	1000.0	1006.3	1013.1	1021.5	1027.2	1034.6	1040.9
22.5°	955.4	962.3	969.1	976.4	984.8	990.0	997.9	1005.2	1011.5	1018.3	1024.6
25°	934.5	942.9	948.1	954.9	961.7	967.5	975.9	983.2	988.4	994.7	1000.5
27.5°	909.8	916.1	920.3	926.1	932.9	938.1	944.4	951.8	957.0	962.8	967.0
30°	867.9	873.7	877.3	881.5	888.3	893.1	898.3	905.1	908.8	913.0	916.7
32.5°	812.9	817.6	819.7	822.8	827.6	832.3	836.5	842.2	843.8	846.4	846.4
35°	733.2	734.3	733.7	734.8	736.9	739.5	743.2	746.8	748.9	748.9	747.4
37.5°	639.9	633.6	626.8	621.6	620.0	619.0	621.1	622.6	624.7	625.8	623.2
40°	543.0	528.8	513.6	500.0	490.6	486.4	484.8	485.8	485.8	489.5	489.5
42.5°	459.6	437.6	415.1	394.6	381.0	370.5	365.8	365.8	366.3	369.0	370.5
45°	390.5	362.7	336.5	313.9	295.1	281.4	275.2	273.6	273.1	274.1	277.8
47.5°	337.5	308.7	281.4	253.7	233.8	220.1	214.4	212.3	210.2	212.3	212.8
50°	296.1	266.2	237.4	209.6	188.7	176.6	169.3	166.1	165.6	165.6	166.7
52.5°	258.4	230.6	201.8	173.5	151.5	139.9	133.1	131.5	129.5	131.5	131.5
55°	222.7	195.0	166.7	139.9	121.6	109.5	103.2	101.2	100.1	101.7	101.7
57.5°	184.0	160.4	134.2	110.1	91.7	83.3	78.6	76.0	75.5	76.5	75.5
60°	150.9	131.0	108.5	86.5	72.3	63.4	59.8	58.7	57.6	58.7	58.7
62.5°	119.5	102.7	84.4	67.6	55.5	49.3	45.1	45.1	44.5	44.5	45.1
65°	88.6	75.5	62.4	48.2	38.8	34.1	30.9	30.9	30.4	30.9	30.4
67.5°	64.5	55.5	45.1	35.1	27.8	25.2	23.1	21.5	22.5	21.5	21.0
70°	47.2	39.8	32.5	26.7	21.5	18.9	17.3	16.8	15.7	15.7	15.7
72.5°	31.5	26.7	22.0	17.3	14.2	11.5	11.0	10.0	8.9	9.4	10.5
75°	21.0	17.8	15.7	12.6	9.4	9.4	6.3	6.3	5.2	6.3	4.7
77.5°	14.7	12.1	9.4	7.9	6.3	5.8	4.2	4.2	3.7	3.7	3.7
80°	10.5	8.9	6.8	5.8	4.2	4.2	3.7	3.1	2.6	2.6	3.1
82.5°	6.3	4.7	4.7	4.2	2.6	2.1	1.6	2.1	1.1	1.1	1.1
85°	3.7	3.1	2.6	1.6	1.1	1.1	0.5	0.0	0.5	0.5	0.0
87.5°	2.1	1.1	1.1	0.5	0.0	0.5	0.5	0.0	0.0	0.0	1.1
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°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4
2.5°	1079.7	1079.1	1080.2	1080.2	1083.3	1082.8	1084.4	1084.4	1083.3	1083.8	1085.9
5°	1083.3	1084.9	1088.0	1090.7	1095.4	1097.5	1100.1	1102.7	1103.2	1104.8	1106.4
7.5°	1083.3	1088.6	1092.2	1096.9	1103.2	1106.9	1112.7	1117.4	1119.5	1122.1	1125.2
10°	1081.2	1086.4	1093.3	1098.5	1106.4	1112.1	1117.9	1125.2	1128.4	1132.6	1136.8
12.5°	1077.0	1082.8	1090.1	1096.9	1105.8	1111.1	1118.4	1125.2	1130.0	1135.7	1140.4
15°	1070.7	1077.5	1084.4	1091.2	1100.6	1106.9	1113.7	1121.6	1126.3	1132.6	1136.8
17.5°	1060.8	1068.1	1074.4	1080.7	1089.6	1096.9	1103.2	1110.6	1115.3	1120.5	1126.3
20°	1048.7	1055.5	1062.4	1067.6	1076.5	1082.8	1089.6	1096.4	1100.1	1101.1	1110.0
22.5°	1033.5	1038.2	1043.5	1051.9	1057.1	1062.9	1069.2	1075.4	1079.1	1084.9	1088.0
25°	1008.4	1013.1	1018.8	1022.5	1028.8	1033.5	1039.8	1046.6	1048.7	1052.9	1056.1
27.5°	973.3	975.9	978.5	981.6	985.3	987.9	991.6	994.7	996.8	998.9	1001.0
30°	917.7	917.7	917.7	915.6	917.2	918.7	919.3	918.7	918.7	918.2	918.2
32.5°	844.3	840.1	835.4	831.2	829.6	827.6	826.5	824.9	822.3	820.7	821.3
35°	745.3	735.8	730.1	724.8	720.6	717.5	715.9	714.3	713.8	711.7	709.6
37.5°	621.6	614.8	610.6	607.4	603.8	600.6	601.1	601.7	603.2	602.2	602.7
40°	490.6	489.0	490.6	486.9	485.8	486.9	489.5	493.2	495.3	497.4	501.0
42.5°	373.2	375.8	379.5	379.5	381.0	383.1	386.3	392.0	395.2	398.8	403.0
45°	280.9	284.1	288.8	290.3	291.4	294.0	297.7	302.4	304.5	307.6	311.3
47.5°	216.5	218.5	221.2	223.8	226.4	227.5	231.1	231.1	233.8	235.9	236.9
50°	168.8	170.9	172.9	174.5	175.6	177.2	178.2	179.8	180.3	181.3	181.9
52.5°	132.1	134.7	134.7	135.7	137.3	138.9	138.4	138.9	139.4	139.4	141.0
55°	103.2	103.2	104.8	104.8	105.9	105.3	105.9	105.9	105.9	105.9	106.4
57.5°	77.0	77.6	79.1	78.1	77.6	78.6	77.6	78.6	78.1	79.1	77.6
60°	59.2	59.2	59.8	59.8	60.3	60.3	60.3	59.8	59.8	59.2	59.2
62.5°	44.5	45.1	45.6	45.1	45.1	45.1	44.5	44.5	44.0	43.5	43.5
65°	29.9	29.4	30.4	29.4	29.9	29.9	29.4	29.9	28.3	28.8	28.3
67.5°	21.5	21.0	20.5	21.0	20.5	19.9	19.9	20.5	21.0	19.4	19.4
70°	14.2	14.7	14.2	14.7	15.2	15.2	14.7	14.2	14.7	13.6	14.2
72.5°	8.9	8.9	8.9	8.9	8.9	9.4	9.4	9.4	8.4	8.4	7.9
75°	4.2	5.8	4.7	4.2	5.8	5.8	5.2	5.2	4.7	4.7	4.7
77.5°	4.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.6	3.1	2.6
80°	2.1	2.1	2.1	1.6	2.1	2.1	2.6	2.1	2.1	1.6	2.6
82.5°	1.1	1.1	1.1	0.0	0.5	1.1	1.1	0.5	1.1	1.1	0.5
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: P245864

CATALOG NUMBER: LD8B20D010 ER8B20940 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4
2.5°	1085.4	1084.9	1085.4	1085.9	1085.4	1084.9	1085.4	1085.9	1083.8	1083.3	1084.4
5°	1108.5	1108.5	1109.5	1110.0	1109.5	1108.5	1108.5	1106.4	1104.8	1103.2	1102.7
7.5°	1128.4	1129.4	1130.5	1131.0	1130.5	1129.4	1128.4	1125.2	1122.1	1119.5	1117.4
10°	1140.4	1142.0	1144.1	1145.1	1144.1	1142.0	1140.4	1136.8	1132.6	1128.4	1125.2
12.5°	1145.7	1147.3	1149.9	1149.4	1149.9	1147.3	1145.7	1140.4	1135.7	1130.0	1125.2
15°	1142.0	1144.1	1146.7	1147.8	1146.7	1144.1	1142.0	1136.8	1132.6	1126.3	1121.6
17.5°	1130.5	1133.6	1135.2	1136.8	1135.2	1133.6	1130.5	1126.3	1120.5	1115.3	1110.6
20°	1114.7	1116.9	1119.0	1119.5	1119.0	1116.9	1114.7	1110.0	1101.1	1100.1	1096.4
22.5°	1092.2	1093.8	1098.5	1096.9	1098.5	1093.8	1092.2	1088.0	1084.9	1079.1	1075.4
25°	1059.7	1061.3	1061.8	1062.4	1061.8	1061.3	1059.7	1056.1	1052.9	1048.7	1046.6
27.5°	1003.7	1003.7	1004.7	1005.2	1004.7	1003.7	1003.7	1001.0	998.9	996.8	994.7
30°	918.7	918.7	918.7	921.4	918.7	918.7	918.7	918.2	918.2	918.7	918.7
32.5°	820.7	819.7	818.6	819.7	818.6	819.7	820.7	821.3	820.7	822.3	824.9
35°	709.6	709.1	710.7	708.6	710.7	709.1	709.6	709.6	711.7	713.8	714.3
37.5°	603.2	602.2	604.3	602.2	604.3	602.2	603.2	602.7	602.2	603.2	601.7
40°	502.1	503.1	503.1	507.3	503.1	503.1	502.1	501.0	497.4	495.3	493.2
42.5°	405.1	408.3	407.2	410.4	407.2	408.3	405.1	403.0	398.8	395.2	392.0
45°	313.4	315.5	315.5	316.6	315.5	315.5	313.4	311.3	307.6	304.5	302.4
47.5°	240.6	240.6	240.6	241.1	240.6	240.6	240.6	236.9	235.9	233.8	231.1
50°	182.9	183.4	184.0	184.5	184.0	183.4	182.9	181.9	181.3	180.3	179.8
52.5°	140.5	141.0	139.9	141.0	139.9	141.0	140.5	141.0	139.4	139.4	138.9
55°	106.4	105.9	106.4	106.9	106.4	105.9	106.4	106.4	105.9	105.9	105.9
57.5°	78.1	77.0	77.0	77.0	77.0	77.0	78.1	77.6	79.1	78.1	78.6
60°	58.2	58.7	58.7	59.2	58.7	58.7	58.2	59.2	59.2	59.8	59.8
62.5°	43.0	44.5	43.5	44.5	43.5	44.5	43.0	43.5	43.5	44.0	44.5
65°	27.8	27.8	27.8	28.3	27.8	27.8	27.8	28.3	28.8	28.3	29.9
67.5°	18.9	19.4	20.5	19.9	20.5	19.4	18.9	19.4	19.4	21.0	20.5
70°	15.2	13.6	13.6	15.2	13.6	13.6	15.2	14.2	13.6	14.7	14.2
72.5°	8.9	7.9	8.9	8.9	8.9	7.9	8.9	7.9	8.4	8.4	9.4
75°	4.7	4.2	3.7	5.2	3.7	4.2	4.7	4.7	4.7	4.7	5.2
77.5°	3.1	2.6	3.7	3.7	3.7	2.6	3.1	2.6	3.1	2.6	3.1
80°	1.6	2.1	1.6	2.6	1.6	2.1	1.6	2.6	1.6	2.1	2.1
82.5°	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.5	1.1	1.1	0.5
85°	0.0	1.1	0.5	0.5	0.5	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.5	0.0	0.0	0.5	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: P245864

CATALOG NUMBER: LD8B20D010 ER8B20940 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4
2.5°	1084.4	1082.8	1083.3	1080.2	1080.2	1079.1	1079.7	1077.0	1076.0	1074.9	1076.5
5°	1100.1	1097.5	1095.4	1090.7	1088.0	1084.9	1083.3	1079.1	1075.4	1072.3	1071.8
7.5°	1112.7	1106.9	1103.2	1096.9	1092.2	1088.6	1083.3	1077.5	1072.8	1068.6	1065.5
10°	1117.9	1112.1	1106.4	1098.5	1093.3	1086.4	1081.2	1073.9	1067.6	1061.8	1058.1
12.5°	1118.4	1111.1	1105.8	1096.9	1090.1	1082.8	1077.0	1068.6	1061.3	1055.5	1049.8
15°	1113.7	1106.9	1100.6	1091.2	1084.4	1077.5	1070.7	1061.8	1055.0	1048.2	1044.0
17.5°	1103.2	1096.9	1089.6	1080.7	1074.4	1068.1	1060.8	1053.4	1045.6	1038.2	1033.0
20°	1089.6	1082.8	1076.5	1067.6	1062.4	1055.5	1048.7	1040.9	1034.6	1027.2	1021.5
22.5°	1069.2	1062.9	1057.1	1051.9	1043.5	1038.2	1033.5	1024.6	1018.3	1011.5	1005.2
25°	1039.8	1033.5	1028.8	1022.5	1018.8	1013.1	1008.4	1000.5	994.7	988.4	983.2
27.5°	991.6	987.9	985.3	981.6	978.5	975.9	973.3	967.0	962.8	957.0	951.8
30°	919.3	918.7	917.2	915.6	917.7	917.7	917.7	916.7	913.0	908.8	905.1
32.5°	826.5	827.6	829.6	831.2	835.4	840.1	844.3	846.4	846.4	843.8	842.2
35°	715.9	717.5	720.6	724.8	730.1	735.8	745.3	747.4	748.9	748.9	746.8
37.5°	601.1	600.6	603.8	607.4	610.6	614.8	621.6	623.2	625.8	624.7	622.6
40°	489.5	486.9	485.8	486.9	490.6	489.0	490.6	489.5	489.5	485.8	485.8
42.5°	386.3	383.1	381.0	379.5	379.5	375.8	373.2	370.5	369.0	366.3	365.8
45°	297.7	294.0	291.4	290.3	288.8	284.1	280.9	277.8	274.1	273.1	273.6
47.5°	231.1	227.5	226.4	223.8	221.2	218.5	216.5	212.8	212.3	210.2	212.3
50°	178.2	177.2	175.6	174.5	172.9	170.9	168.8	166.7	165.6	165.6	166.1
52.5°	138.4	138.9	137.3	135.7	134.7	134.7	132.1	131.5	131.5	129.5	131.5
55°	105.9	105.3	105.9	104.8	104.8	103.2	103.2	101.7	101.7	100.1	101.2
57.5°	77.6	78.6	77.6	78.1	79.1	77.6	77.0	75.5	76.5	75.5	76.0
60°	60.3	60.3	60.3	59.8	59.8	59.2	59.2	58.7	58.7	57.6	58.7
62.5°	44.5	45.1	45.1	45.1	45.6	45.1	44.5	45.1	44.5	44.5	45.1
65°	29.4	29.9	29.9	29.4	30.4	29.4	29.9	30.4	30.9	30.4	30.9
67.5°	19.9	19.9	20.5	21.0	20.5	21.0	21.5	21.0	21.5	22.5	21.5
70°	14.7	15.2	15.2	14.7	14.2	14.7	14.2	15.7	15.7	15.7	16.8
72.5°	9.4	9.4	8.9	8.9	8.9	8.9	8.9	10.5	9.4	8.9	10.0
75°	5.2	5.8	5.8	4.2	4.7	5.8	4.2	4.7	6.3	5.2	6.3
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.2	3.7	3.7	3.7	4.2
80°	2.6	2.1	2.1	1.6	2.1	2.1	2.1	3.1	2.6	2.6	3.1
82.5°	1.1	1.1	0.5	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	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: P245864

CATALOG NUMBER: LD8B20D010 ER8B20940 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4
2.5°	1072.3	1072.3	1071.8	1070.7	1068.6	1068.6	1068.1	1066.5	1065.5	1065.0	1065.0
5°	1067.1	1065.0	1062.9	1057.1	1057.1	1056.1	1052.9	1050.8	1049.8	1047.1	1046.1
7.5°	1062.4	1056.1	1052.4	1048.7	1044.0	1041.9	1038.2	1036.7	1033.0	1030.4	1028.8
10°	1050.8	1046.6	1041.9	1036.1	1032.5	1028.3	1024.1	1021.0	1016.2	1013.6	1011.5
12.5°	1043.0	1036.7	1032.5	1026.2	1019.9	1016.2	1010.5	1006.8	1002.1	996.8	993.7
15°	1035.6	1028.8	1023.0	1016.2	1009.4	1005.2	998.4	994.2	987.4	982.2	978.5
17.5°	1024.6	1018.8	1012.6	1004.2	997.9	992.7	985.3	980.1	973.8	967.0	963.3
20°	1013.1	1006.3	1000.0	991.6	985.3	979.0	971.7	965.9	958.6	952.3	948.1
22.5°	997.9	990.0	984.8	976.4	969.1	962.3	955.4	948.6	941.8	936.6	931.8
25°	975.9	967.5	961.7	954.9	948.1	942.9	934.5	930.3	923.5	918.7	914.0
27.5°	944.4	938.1	932.9	926.1	920.3	916.1	909.8	905.6	899.9	895.7	892.0
30°	898.3	893.1	888.3	881.5	877.3	873.7	867.9	864.2	860.0	855.3	854.3
32.5°	836.5	832.3	827.6	822.8	819.7	817.6	812.9	810.8	806.6	804.0	801.3
35°	743.2	739.5	736.9	734.8	733.7	734.3	733.2	735.3	736.3	735.8	736.3
37.5°	621.1	619.0	620.0	621.6	626.8	633.6	639.9	649.3	655.6	661.9	667.7
40°	484.8	486.4	490.6	500.0	513.6	528.8	543.0	560.8	578.6	591.2	602.7
42.5°	365.8	370.5	381.0	394.6	415.1	437.6	459.6	485.8	507.3	528.3	543.0
45°	275.2	281.4	295.1	313.9	336.5	362.7	390.5	419.8	445.5	467.0	483.2
47.5°	214.4	220.1	233.8	253.7	281.4	308.7	337.5	367.9	394.6	415.6	429.8
50°	169.3	176.6	188.7	209.6	237.4	266.2	296.1	326.0	351.2	369.0	381.5
52.5°	133.1	139.9	151.5	173.5	201.8	230.6	258.4	287.7	309.7	327.0	335.4
55°	103.2	109.5	121.6	139.9	166.7	195.0	222.7	247.9	268.3	280.9	288.8
57.5°	78.6	83.3	91.7	110.1	134.2	160.4	184.0	209.1	224.8	233.8	239.0
60°	59.8	63.4	72.3	86.5	108.5	131.0	150.9	169.8	182.4	189.7	195.0
62.5°	45.1	49.3	55.5	67.6	84.4	102.7	119.5	133.6	144.1	148.8	152.5
65°	30.9	34.1	38.8	48.2	62.4	75.5	88.6	99.1	105.9	111.1	113.2
67.5°	23.1	25.2	27.8	35.1	45.1	55.5	64.5	71.8	79.1	81.2	84.9
70°	17.3	18.9	21.5	26.7	32.5	39.8	47.2	51.4	56.6	60.3	61.3
72.5°	11.0	11.5	14.2	17.3	22.0	26.7	31.5	35.1	38.3	40.4	41.4
75°	6.3	9.4	9.4	12.6	15.7	17.8	21.0	23.6	25.2	26.7	26.7
77.5°	4.2	5.8	6.3	7.9	9.4	12.1	14.7	16.2	17.8	18.3	18.3
80°	3.7	4.2	4.2	5.8	6.8	8.9	10.5	11.0	12.1	12.6	13.6
82.5°	1.6	2.1	2.6	4.2	4.7	4.7	6.3	6.8	7.9	8.4	8.4
85°	0.5	1.1	1.1	1.6	2.6	3.1	3.7	4.2	4.7	4.7	5.2
87.5°	0.5	0.5	0.0	0.5	1.1	1.1	2.1	2.1	2.1	3.1	3.1
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: P245864

CATALOG NUMBER: LD8B20D010 ER8B20940 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4
2.5°	1063.9	1064.4	1062.4	1061.8	1060.8	1061.3	1062.4
5°	1044.5	1045.0	1043.0	1040.9	1040.9	1040.3	1040.9
7.5°	1026.2	1026.7	1023.6	1022.5	1020.4	1021.0	1021.0
10°	1007.8	1007.8	1003.1	1002.6	1001.0	1000.5	1000.5
12.5°	990.0	988.4	984.8	982.7	983.7	980.6	980.6
15°	974.3	971.7	967.0	965.4	962.8	961.7	961.7
17.5°	958.0	956.0	951.8	948.6	945.5	945.0	945.5
20°	942.3	940.2	935.0	932.9	930.3	930.3	929.2
22.5°	926.6	924.5	919.8	918.2	914.6	914.6	915.1
25°	910.4	908.8	903.5	902.5	902.0	899.9	900.9
27.5°	888.3	887.3	883.1	881.5	879.4	878.9	880.0
30°	848.0	846.4	843.3	841.7	838.0	838.6	839.6
32.5°	797.7	795.6	791.4	789.8	786.7	785.6	786.1
35°	734.8	733.2	729.6	729.6	726.4	725.3	726.4
37.5°	670.9	672.4	670.9	672.4	670.9	670.3	670.9
40°	610.6	616.3	617.4	623.2	621.1	624.2	623.7
42.5°	552.9	562.3	566.0	570.7	569.7	571.8	573.4
45°	494.7	502.6	506.3	509.4	509.9	511.0	511.5
47.5°	439.7	446.0	446.5	450.2	449.7	449.7	451.2
50°	388.4	392.6	393.6	396.2	394.1	393.1	393.6
52.5°	340.7	344.9	343.8	344.9	342.2	341.2	341.7
55°	291.9	294.0	294.0	294.0	290.9	290.9	290.9
57.5°	242.1	242.7	241.6	242.1	241.6	238.5	237.9
60°	196.5	196.5	196.0	196.5	195.0	193.4	193.4
62.5°	153.6	154.6	156.7	154.6	153.6	154.6	153.0
65°	114.8	116.9	116.3	117.4	116.9	116.9	115.8
67.5°	86.5	87.0	87.5	88.1	88.1	88.1	88.1
70°	63.4	65.0	64.5	64.5	64.5	64.5	67.6
72.5°	42.5	44.5	44.0	45.1	45.1	46.1	45.1
75°	28.8	30.9	29.9	31.5	30.9	29.9	32.5
77.5°	19.4	20.5	21.0	21.5	21.0	20.5	21.0
80°	13.6	14.7	14.2	14.7	14.7	14.7	15.2
82.5°	8.4	10.0	9.4	10.0	9.4	10.0	10.0
85°	5.8	6.3	5.2	6.3	5.8	5.8	6.8
87.5°	3.7	3.1	3.1	3.7	3.1	3.7	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)