

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: P245006

Luminaire Tested: **LD8B20D010 ER8B20950 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245006  
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 ER8B20950 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2005.0 lumens  
Efficiency: N/A  
Efficacy: 94.1 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

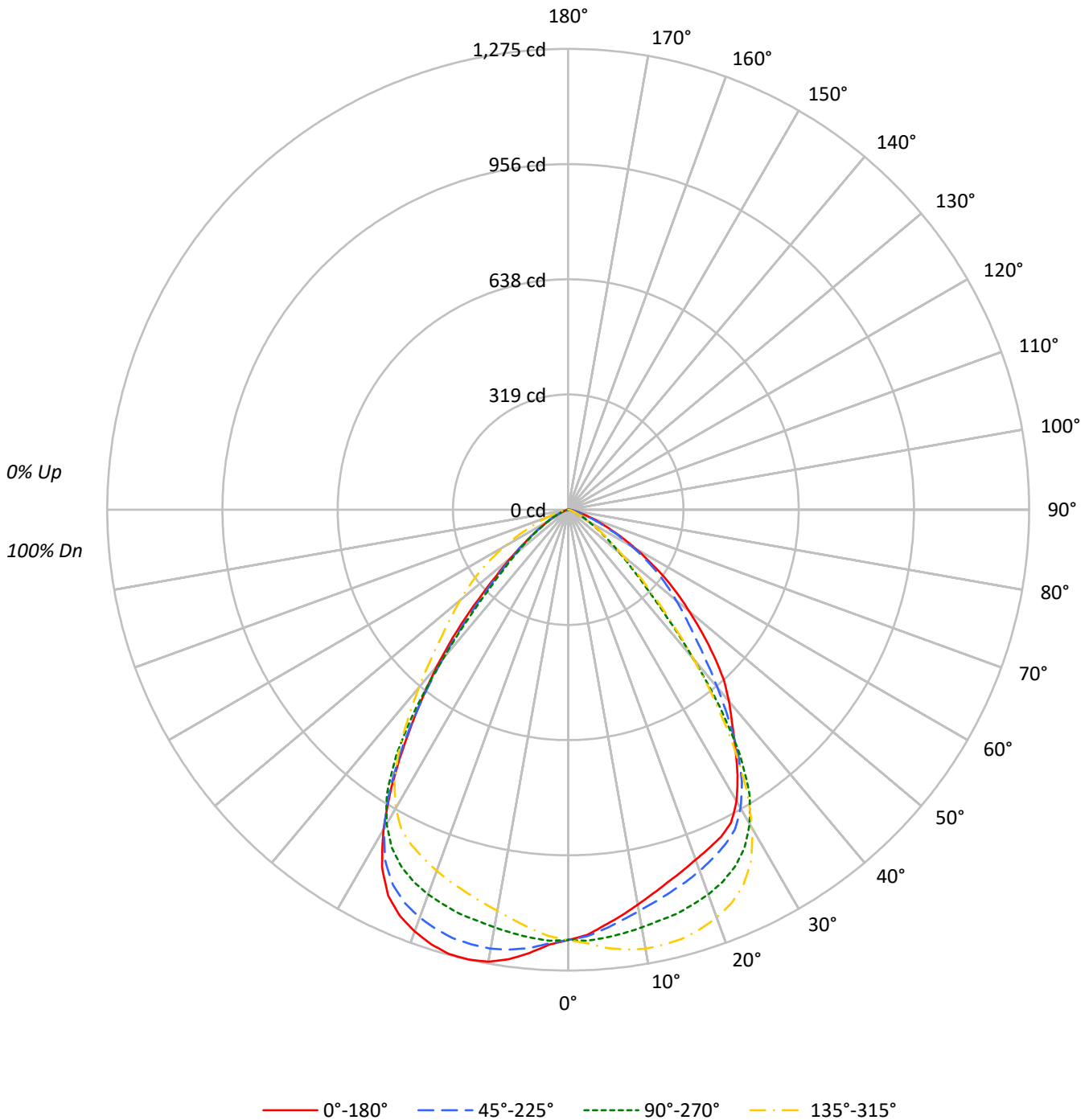
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	36704	36704	36704	36704
5°	35730	36792	38105	36792
10°	34741	36742	39763	36742
15°	34047	36962	40633	36962
20°	33816	37173	40740	37173
25°	33993	37096	40084	37096
30°	33153	35738	36383	35738
35°	30326	31177	29581	31177
40°	27840	21689	22647	21689
45°	24739	13231	15307	13231
50°	20940	8837	9815	8837
55°	17343	6032	6376	6032
60°	13229	4015	4052	4015
65°	9369	2503	2291	2503
70°	6762	1677	1524	1677
75°	4289	834	691	834
80°	3001	622	515	622
85°	2689	0	212	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.3	5.7
10°-20°	328.1	16.4
20°-30°	496.8	24.8
30°-40°	497.9	24.8
40°-50°	312.7	15.6
50°-60°	166.6	8.3
60°-70°	68.5	3.4
70°-80°	18.1	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°	938.2	46.8
0°-40°	1436.1	71.6
0°-60°	1915.3	95.5
0°-90°	2005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2005.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1190	1190	1190	1190	1190	
5°	1154	1189	1231	1189	1154	109
15°	1066	1158	1273	1158	1066	302
25°	999	1090	1178	1090	999	458
35°	806	828	786	828	806	505
45°	567	303	351	303	567	436
55°	323	112	119	112	323	288
65°	128	34	31	34	128	133
75°	36	7	6	7	36	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°	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3
2.5°	1178.1	1176.9	1176.4	1177.5	1178.1	1180.4	1179.9	1181.0	1181.0	1181.6	1182.7
5°	1154.3	1153.7	1154.3	1154.3	1156.6	1158.9	1158.3	1160.1	1161.2	1164.2	1165.3
7.5°	1132.2	1132.2	1131.6	1133.9	1135.1	1138.6	1138.0	1140.9	1142.7	1145.5	1149.6
10°	1109.5	1109.5	1110.1	1111.8	1112.4	1117.7	1117.7	1121.7	1124.0	1127.0	1132.2
12.5°	1087.4	1087.4	1090.9	1089.8	1092.1	1096.1	1097.9	1102.0	1105.5	1111.3	1116.5
15°	1066.5	1066.5	1067.7	1070.6	1072.3	1077.6	1080.5	1085.1	1089.2	1095.0	1102.6
17.5°	1048.5	1047.9	1048.5	1052.0	1055.5	1060.1	1062.4	1068.3	1072.3	1079.9	1086.9
20°	1030.5	1031.6	1031.6	1034.5	1036.9	1042.7	1045.0	1051.4	1056.1	1063.0	1071.2
22.5°	1014.8	1014.2	1014.2	1018.3	1020.0	1025.2	1027.6	1033.4	1038.6	1044.4	1052.0
25°	999.1	997.9	1000.3	1000.8	1002.0	1007.8	1009.5	1013.6	1018.8	1024.1	1031.6
27.5°	975.8	974.7	975.3	977.6	979.3	984.0	985.1	989.2	993.3	997.9	1004.3
30°	931.1	929.9	929.4	933.4	935.2	938.6	940.4	947.4	948.5	953.8	958.4
32.5°	871.8	871.2	872.4	875.9	877.6	882.3	884.6	888.7	891.6	894.5	899.1
35°	805.6	804.4	805.6	809.0	809.0	813.1	814.9	816.6	816.0	816.6	815.4
37.5°	744.0	743.4	744.0	745.7	744.0	745.7	744.0	740.5	734.1	727.1	720.1
40°	691.6	692.2	688.7	691.1	684.6	683.5	677.1	668.4	655.6	641.7	621.9
42.5°	635.8	634.1	631.8	632.9	627.7	623.6	613.2	602.1	585.8	562.6	538.8
45°	567.3	566.7	565.5	564.9	561.4	557.4	548.6	535.9	517.9	494.0	465.5
47.5°	500.4	498.7	498.7	499.2	495.2	494.6	487.6	476.6	460.9	437.6	408.0
50°	436.5	435.9	437.1	439.4	436.5	435.3	430.7	423.1	409.2	389.4	361.5
52.5°	378.9	378.4	379.5	382.4	381.3	382.4	377.8	372.0	362.7	343.5	319.1
55°	322.6	322.6	322.6	326.0	326.0	326.0	323.7	320.3	311.5	297.6	274.9
57.5°	263.9	264.4	267.9	268.5	267.9	269.1	268.5	265.0	259.2	249.3	231.9
60°	214.5	214.5	216.2	218.0	217.4	218.0	218.0	216.2	210.4	202.3	188.3
62.5°	169.7	171.5	170.3	171.5	173.8	171.5	170.3	169.1	165.1	159.8	148.2
65°	128.4	129.6	129.6	130.2	129.0	129.6	127.3	125.5	123.2	117.4	109.9
67.5°	97.7	97.7	97.7	97.7	97.1	96.5	95.9	94.2	90.1	87.8	79.6
70°	75.0	71.5	71.5	71.5	71.5	72.1	70.3	68.0	66.8	62.8	57.0
72.5°	50.0	51.1	50.0	50.0	48.8	49.4	47.1	45.9	44.8	42.4	38.9
75°	36.0	33.1	34.3	34.9	33.1	34.3	32.0	29.6	29.6	27.9	26.1
77.5°	23.3	22.7	23.3	23.8	23.3	22.7	21.5	20.3	20.3	19.8	18.0
80°	16.9	16.3	16.3	16.3	15.7	16.3	15.1	15.1	13.9	13.4	12.2
82.5°	11.1	11.1	10.5	11.1	10.5	11.1	9.3	9.3	9.3	8.7	7.6
85°	7.6	6.4	6.4	7.0	5.8	7.0	6.4	5.8	5.2	5.2	4.6
87.5°	3.5	4.1	3.5	4.1	3.5	3.5	4.1	3.5	3.5	2.3	2.3
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°	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3
2.5°	1184.5	1185.1	1185.1	1187.4	1188.6	1189.1	1189.1	1193.8	1192.1	1193.2	1194.4
5°	1167.7	1171.1	1172.3	1172.3	1178.7	1181.0	1183.3	1188.6	1189.1	1192.6	1196.7
7.5°	1151.4	1155.4	1157.8	1163.0	1167.1	1171.1	1178.1	1181.6	1185.1	1189.7	1194.9
10°	1135.7	1140.3	1145.0	1149.0	1155.4	1160.7	1165.3	1173.4	1177.5	1183.9	1190.9
12.5°	1120.6	1127.0	1131.0	1138.0	1145.0	1149.6	1156.6	1164.2	1170.5	1176.9	1185.1
15°	1107.2	1114.8	1119.4	1127.0	1134.5	1140.9	1148.5	1157.8	1162.4	1170.0	1177.5
17.5°	1092.7	1100.8	1106.6	1113.6	1122.9	1129.9	1136.3	1145.5	1151.4	1159.5	1168.2
20°	1077.6	1085.7	1092.7	1099.6	1108.9	1115.9	1123.5	1132.8	1139.2	1147.3	1154.3
22.5°	1059.5	1067.1	1074.6	1082.8	1092.1	1097.9	1106.6	1114.8	1121.7	1129.3	1136.3
25°	1036.3	1045.6	1051.4	1058.9	1066.5	1072.9	1082.2	1090.3	1096.1	1103.1	1109.5
27.5°	1009.0	1016.0	1020.6	1027.0	1034.5	1040.4	1047.3	1055.5	1061.3	1067.7	1072.3
30°	962.5	968.9	972.9	977.6	985.1	990.4	996.2	1003.7	1007.8	1012.5	1016.5
32.5°	901.4	906.7	909.0	912.5	917.7	922.9	927.6	934.0	935.7	938.6	938.6
35°	813.1	814.3	813.7	814.9	817.2	820.1	824.1	828.2	830.5	830.5	828.8
37.5°	709.6	702.7	695.1	689.3	687.6	686.4	688.7	690.5	692.8	694.0	691.1
40°	602.1	586.4	569.6	554.5	544.0	539.4	537.6	538.8	538.8	542.8	542.8
42.5°	509.7	485.3	460.3	437.6	422.5	410.9	405.7	405.7	406.3	409.2	410.9
45°	433.0	402.2	373.1	348.1	327.2	312.1	305.1	303.4	302.8	304.0	308.0
47.5°	374.3	342.3	312.1	281.3	259.2	244.1	237.7	235.4	233.1	235.4	236.0
50°	328.4	295.3	263.3	232.5	209.2	195.9	187.7	184.2	183.7	183.7	184.8
52.5°	286.5	255.7	223.8	192.4	168.0	155.2	147.6	145.9	143.6	145.9	145.9
55°	247.0	216.2	184.8	155.2	134.8	121.5	114.5	112.2	111.0	112.7	112.7
57.5°	204.0	177.8	148.8	122.1	101.7	92.4	87.2	84.3	83.7	84.9	83.7
60°	167.4	145.3	120.3	95.9	80.2	70.3	66.3	65.1	63.9	65.1	65.1
62.5°	132.5	113.9	93.6	75.0	61.6	54.6	50.0	50.0	49.4	49.4	50.0
65°	98.2	83.7	69.2	53.5	43.0	37.8	34.3	34.3	33.7	34.3	33.7
67.5°	71.5	61.6	50.0	38.9	30.8	27.9	25.6	23.8	25.0	23.8	23.3
70°	52.3	44.2	36.0	29.6	23.8	20.9	19.2	18.6	17.4	17.4	17.4
72.5°	34.9	29.6	24.4	19.2	15.7	12.8	12.2	11.1	9.9	10.5	11.6
75°	23.3	19.8	17.4	13.9	10.5	10.5	7.0	7.0	5.8	7.0	5.2
77.5°	16.3	13.4	10.5	8.7	7.0	6.4	4.6	4.6	4.1	4.1	4.1
80°	11.6	9.9	7.6	6.4	4.6	4.6	4.1	3.5	2.9	2.9	3.5
82.5°	7.0	5.2	5.2	4.6	2.9	2.3	1.7	2.3	1.2	1.2	1.2
85°	4.1	3.5	2.9	1.7	1.2	1.2	0.6	0.0	0.6	0.6	0.0
87.5°	2.3	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°	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3
2.5°	1197.3	1196.7	1197.9	1197.9	1201.4	1200.8	1202.5	1202.5	1201.4	1201.9	1204.3
5°	1201.4	1203.1	1206.6	1209.5	1214.7	1217.1	1219.9	1222.9	1223.4	1225.2	1226.9
7.5°	1201.4	1207.2	1211.2	1216.5	1223.4	1227.5	1233.9	1239.1	1241.5	1244.3	1247.8
10°	1199.0	1204.8	1212.4	1218.2	1226.9	1233.3	1239.7	1247.8	1251.3	1256.0	1260.6
12.5°	1194.4	1200.8	1208.9	1216.5	1226.3	1232.1	1240.3	1247.8	1253.1	1259.5	1264.7
15°	1187.4	1194.9	1202.5	1210.1	1220.5	1227.5	1235.1	1243.8	1249.0	1256.0	1260.6
17.5°	1176.4	1184.5	1191.5	1198.4	1208.3	1216.5	1223.4	1231.6	1236.8	1242.6	1249.0
20°	1163.0	1170.5	1178.1	1183.9	1193.8	1200.8	1208.3	1215.9	1219.9	1221.1	1231.0
22.5°	1146.1	1151.4	1157.2	1166.5	1172.3	1178.7	1185.7	1192.6	1196.7	1203.1	1206.6
25°	1118.2	1123.5	1129.9	1133.9	1140.9	1146.1	1153.1	1160.7	1163.0	1167.7	1171.1
27.5°	1079.3	1082.2	1085.1	1088.6	1092.7	1095.6	1099.6	1103.1	1105.5	1107.8	1110.1
30°	1017.7	1017.7	1017.7	1015.4	1017.1	1018.8	1019.4	1018.8	1018.8	1018.3	1018.3
32.5°	936.3	931.7	926.4	921.8	920.0	917.7	916.6	914.8	911.9	910.2	910.7
35°	826.5	816.0	809.6	803.8	799.2	795.7	793.9	792.2	791.6	789.3	786.9
37.5°	689.3	681.8	677.1	673.6	669.6	666.1	666.6	667.2	669.0	667.8	668.4
40°	544.0	542.3	544.0	539.9	538.8	539.9	542.8	546.9	549.2	551.6	555.6
42.5°	413.8	416.7	420.8	420.8	422.5	424.9	428.3	434.7	438.2	442.3	447.0
45°	311.5	315.0	320.3	322.0	323.1	326.0	330.1	335.4	337.7	341.2	345.2
47.5°	240.0	242.4	245.3	248.2	251.1	252.2	256.3	256.3	259.2	261.5	262.7
50°	187.1	189.5	191.8	193.5	194.7	196.5	197.6	199.3	199.9	201.1	201.7
52.5°	146.5	149.4	149.4	150.5	152.3	154.0	153.4	154.0	154.6	154.6	156.3
55°	114.5	114.5	116.2	116.2	117.4	116.8	117.4	117.4	117.4	117.4	118.0
57.5°	85.4	86.0	87.8	86.6	86.0	87.2	86.0	87.2	86.6	87.8	86.0
60°	65.7	65.7	66.3	66.3	66.8	66.8	66.8	66.3	66.3	65.7	65.7
62.5°	49.4	50.0	50.6	50.0	50.0	50.0	49.4	49.4	48.8	48.2	48.2
65°	33.1	32.6	33.7	32.6	33.1	33.1	32.6	33.1	31.4	32.0	31.4
67.5°	23.8	23.3	22.7	23.3	22.7	22.1	22.1	22.7	23.3	21.5	21.5
70°	15.7	16.3	15.7	16.3	16.9	16.9	16.3	15.7	16.3	15.1	15.7
72.5°	9.9	9.9	9.9	9.9	9.9	10.5	10.5	10.5	9.3	9.3	8.7
75°	4.6	6.4	5.2	4.6	6.4	6.4	5.8	5.8	5.2	5.2	5.2
77.5°	4.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.9	3.5	2.9
80°	2.3	2.3	2.3	1.7	2.3	2.3	2.9	2.3	2.3	1.7	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: P245006

CATALOG NUMBER: LD8B20D010 ER8B20950 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3
2.5°	1203.7	1203.1	1203.7	1204.3	1203.7	1203.1	1203.7	1204.3	1201.9	1201.4	1202.5
5°	1229.3	1229.3	1230.4	1231.0	1230.4	1229.3	1229.3	1226.9	1225.2	1223.4	1222.9
7.5°	1251.3	1252.5	1253.7	1254.2	1253.7	1252.5	1251.3	1247.8	1244.3	1241.5	1239.1
10°	1264.7	1266.5	1268.8	1269.9	1268.8	1266.5	1264.7	1260.6	1256.0	1251.3	1247.8
12.5°	1270.5	1272.3	1275.2	1274.6	1275.2	1272.3	1270.5	1264.7	1259.5	1253.1	1247.8
15°	1266.5	1268.8	1271.7	1272.8	1271.7	1268.8	1266.5	1260.6	1256.0	1249.0	1243.8
17.5°	1253.7	1257.1	1258.9	1260.6	1258.9	1257.1	1253.7	1249.0	1242.6	1236.8	1231.6
20°	1236.2	1238.6	1240.9	1241.5	1240.9	1238.6	1236.2	1231.0	1221.1	1219.9	1215.9
22.5°	1211.2	1213.0	1218.2	1216.5	1218.2	1213.0	1211.2	1206.6	1203.1	1196.7	1192.6
25°	1175.2	1176.9	1177.5	1178.1	1177.5	1176.9	1175.2	1171.1	1167.7	1163.0	1160.7
27.5°	1113.0	1113.0	1114.2	1114.8	1114.2	1113.0	1113.0	1110.1	1107.8	1105.5	1103.1
30°	1018.8	1018.8	1018.8	1021.8	1018.8	1018.8	1018.8	1018.3	1018.3	1018.8	1018.8
32.5°	910.2	909.0	907.8	909.0	907.8	909.0	910.2	910.7	910.2	911.9	914.8
35°	786.9	786.4	788.1	785.8	788.1	786.4	786.9	786.9	789.3	791.6	792.2
37.5°	669.0	667.8	670.1	667.8	670.1	667.8	669.0	668.4	667.8	669.0	667.2
40°	556.8	558.0	558.0	562.6	558.0	558.0	556.8	555.6	551.6	549.2	546.9
42.5°	449.3	452.8	451.6	455.1	451.6	452.8	449.3	447.0	442.3	438.2	434.7
45°	347.6	349.9	349.9	351.0	349.9	349.9	347.6	345.2	341.2	337.7	335.4
47.5°	266.8	266.8	266.8	267.4	266.8	266.8	266.8	262.7	261.5	259.2	256.3
50°	202.8	203.4	204.0	204.6	204.0	203.4	202.8	201.7	201.1	199.9	199.3
52.5°	155.8	156.3	155.2	156.3	155.2	156.3	155.8	156.3	154.6	154.6	154.0
55°	118.0	117.4	118.0	118.6	118.0	117.4	118.0	118.0	117.4	117.4	117.4
57.5°	86.6	85.4	85.4	85.4	85.4	85.4	86.6	86.0	87.8	86.6	87.2
60°	64.5	65.1	65.1	65.7	65.1	65.1	64.5	65.7	65.7	66.3	66.3
62.5°	47.7	49.4	48.2	49.4	48.2	49.4	47.7	48.2	48.2	48.8	49.4
65°	30.8	30.8	30.8	31.4	30.8	30.8	30.8	31.4	32.0	31.4	33.1
67.5°	20.9	21.5	22.7	22.1	22.7	21.5	20.9	21.5	21.5	23.3	22.7
70°	16.9	15.1	15.1	16.9	15.1	15.1	16.9	15.7	15.1	16.3	15.7
72.5°	9.9	8.7	9.9	9.9	9.9	8.7	9.9	8.7	9.3	9.3	10.5
75°	5.2	4.6	4.1	5.8	4.1	4.6	5.2	5.2	5.2	5.2	5.8
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°	1.7	2.3	1.7	2.9	1.7	2.3	1.7	2.9	1.7	2.3	2.3
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: P245006

CATALOG NUMBER: LD8B20D010 ER8B20950 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3
2.5°	1202.5	1200.8	1201.4	1197.9	1197.9	1196.7	1197.3	1194.4	1193.2	1192.1	1193.8
5°	1219.9	1217.1	1214.7	1209.5	1206.6	1203.1	1201.4	1196.7	1192.6	1189.1	1188.6
7.5°	1233.9	1227.5	1223.4	1216.5	1211.2	1207.2	1201.4	1194.9	1189.7	1185.1	1181.6
10°	1239.7	1233.3	1226.9	1218.2	1212.4	1204.8	1199.0	1190.9	1183.9	1177.5	1173.4
12.5°	1240.3	1232.1	1226.3	1216.5	1208.9	1200.8	1194.4	1185.1	1176.9	1170.5	1164.2
15°	1235.1	1227.5	1220.5	1210.1	1202.5	1194.9	1187.4	1177.5	1170.0	1162.4	1157.8
17.5°	1223.4	1216.5	1208.3	1198.4	1191.5	1184.5	1176.4	1168.2	1159.5	1151.4	1145.5
20°	1208.3	1200.8	1193.8	1183.9	1178.1	1170.5	1163.0	1154.3	1147.3	1139.2	1132.8
22.5°	1185.7	1178.7	1172.3	1166.5	1157.2	1151.4	1146.1	1136.3	1129.3	1121.7	1114.8
25°	1153.1	1146.1	1140.9	1133.9	1129.9	1123.5	1118.2	1109.5	1103.1	1096.1	1090.3
27.5°	1099.6	1095.6	1092.7	1088.6	1085.1	1082.2	1079.3	1072.3	1067.7	1061.3	1055.5
30°	1019.4	1018.8	1017.1	1015.4	1017.7	1017.7	1017.7	1016.5	1012.5	1007.8	1003.7
32.5°	916.6	917.7	920.0	921.8	926.4	931.7	936.3	938.6	938.6	935.7	934.0
35°	793.9	795.7	799.2	803.8	809.6	816.0	826.5	828.8	830.5	830.5	828.2
37.5°	666.6	666.1	669.6	673.6	677.1	681.8	689.3	691.1	694.0	692.8	690.5
40°	542.8	539.9	538.8	539.9	544.0	542.3	544.0	542.8	542.8	538.8	538.8
42.5°	428.3	424.9	422.5	420.8	420.8	416.7	413.8	410.9	409.2	406.3	405.7
45°	330.1	326.0	323.1	322.0	320.3	315.0	311.5	308.0	304.0	302.8	303.4
47.5°	256.3	252.2	251.1	248.2	245.3	242.4	240.0	236.0	235.4	233.1	235.4
50°	197.6	196.5	194.7	193.5	191.8	189.5	187.1	184.8	183.7	183.7	184.2
52.5°	153.4	154.0	152.3	150.5	149.4	149.4	146.5	145.9	145.9	143.6	145.9
55°	117.4	116.8	117.4	116.2	116.2	114.5	114.5	112.7	112.7	111.0	112.2
57.5°	86.0	87.2	86.0	86.6	87.8	86.0	85.4	83.7	84.9	83.7	84.3
60°	66.8	66.8	66.8	66.3	66.3	65.7	65.7	65.1	65.1	63.9	65.1
62.5°	49.4	50.0	50.0	50.0	50.6	50.0	49.4	50.0	49.4	49.4	50.0
65°	32.6	33.1	33.1	32.6	33.7	32.6	33.1	33.7	34.3	33.7	34.3
67.5°	22.1	22.1	22.7	23.3	22.7	23.3	23.8	23.3	23.8	25.0	23.8
70°	16.3	16.9	16.9	16.3	15.7	16.3	15.7	17.4	17.4	17.4	18.6
72.5°	10.5	10.5	9.9	9.9	9.9	9.9	9.9	11.6	10.5	9.9	11.1
75°	5.8	6.4	6.4	4.6	5.2	6.4	4.6	5.2	7.0	5.8	7.0
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.6	4.1	4.1	4.1	4.6
80°	2.9	2.3	2.3	1.7	2.3	2.3	2.3	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	2.3
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: P245006

CATALOG NUMBER: LD8B20D010 ER8B20950 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3
2.5°	1189.1	1189.1	1188.6	1187.4	1185.1	1185.1	1184.5	1182.7	1181.6	1181.0	1181.0
5°	1183.3	1181.0	1178.7	1172.3	1172.3	1171.1	1167.7	1165.3	1164.2	1161.2	1160.1
7.5°	1178.1	1171.1	1167.1	1163.0	1157.8	1155.4	1151.4	1149.6	1145.5	1142.7	1140.9
10°	1165.3	1160.7	1155.4	1149.0	1145.0	1140.3	1135.7	1132.2	1127.0	1124.0	1121.7
12.5°	1156.6	1149.6	1145.0	1138.0	1131.0	1127.0	1120.6	1116.5	1111.3	1105.5	1102.0
15°	1148.5	1140.9	1134.5	1127.0	1119.4	1114.8	1107.2	1102.6	1095.0	1089.2	1085.1
17.5°	1136.3	1129.9	1122.9	1113.6	1106.6	1100.8	1092.7	1086.9	1079.9	1072.3	1068.3
20°	1123.5	1115.9	1108.9	1099.6	1092.7	1085.7	1077.6	1071.2	1063.0	1056.1	1051.4
22.5°	1106.6	1097.9	1092.1	1082.8	1074.6	1067.1	1059.5	1052.0	1044.4	1038.6	1033.4
25°	1082.2	1072.9	1066.5	1058.9	1051.4	1045.6	1036.3	1031.6	1024.1	1018.8	1013.6
27.5°	1047.3	1040.4	1034.5	1027.0	1020.6	1016.0	1009.0	1004.3	997.9	993.3	989.2
30°	996.2	990.4	985.1	977.6	972.9	968.9	962.5	958.4	953.8	948.5	947.4
32.5°	927.6	922.9	917.7	912.5	909.0	906.7	901.4	899.1	894.5	891.6	888.7
35°	824.1	820.1	817.2	814.9	813.7	814.3	813.1	815.4	816.6	816.0	816.6
37.5°	688.7	686.4	687.6	689.3	695.1	702.7	709.6	720.1	727.1	734.1	740.5
40°	537.6	539.4	544.0	554.5	569.6	586.4	602.1	621.9	641.7	655.6	668.4
42.5°	405.7	410.9	422.5	437.6	460.3	485.3	509.7	538.8	562.6	585.8	602.1
45°	305.1	312.1	327.2	348.1	373.1	402.2	433.0	465.5	494.0	517.9	535.9
47.5°	237.7	244.1	259.2	281.3	312.1	342.3	374.3	408.0	437.6	460.9	476.6
50°	187.7	195.9	209.2	232.5	263.3	295.3	328.4	361.5	389.4	409.2	423.1
52.5°	147.6	155.2	168.0	192.4	223.8	255.7	286.5	319.1	343.5	362.7	372.0
55°	114.5	121.5	134.8	155.2	184.8	216.2	247.0	274.9	297.6	311.5	320.3
57.5°	87.2	92.4	101.7	122.1	148.8	177.8	204.0	231.9	249.3	259.2	265.0
60°	66.3	70.3	80.2	95.9	120.3	145.3	167.4	188.3	202.3	210.4	216.2
62.5°	50.0	54.6	61.6	75.0	93.6	113.9	132.5	148.2	159.8	165.1	169.1
65°	34.3	37.8	43.0	53.5	69.2	83.7	98.2	109.9	117.4	123.2	125.5
67.5°	25.6	27.9	30.8	38.9	50.0	61.6	71.5	79.6	87.8	90.1	94.2
70°	19.2	20.9	23.8	29.6	36.0	44.2	52.3	57.0	62.8	66.8	68.0
72.5°	12.2	12.8	15.7	19.2	24.4	29.6	34.9	38.9	42.4	44.8	45.9
75°	7.0	10.5	10.5	13.9	17.4	19.8	23.3	26.1	27.9	29.6	29.6
77.5°	4.6	6.4	7.0	8.7	10.5	13.4	16.3	18.0	19.8	20.3	20.3
80°	4.1	4.6	4.6	6.4	7.6	9.9	11.6	12.2	13.4	13.9	15.1
82.5°	1.7	2.3	2.9	4.6	5.2	5.2	7.0	7.6	8.7	9.3	9.3
85°	0.6	1.2	1.2	1.7	2.9	3.5	4.1	4.6	5.2	5.2	5.8
87.5°	0.6	0.6	0.0	0.6	1.2	1.2	2.3	2.3	2.3	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: P245006

CATALOG NUMBER: LD8B20D010 ER8B20950 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3	1190.3
2.5°	1179.9	1180.4	1178.1	1177.5	1176.4	1176.9	1178.1
5°	1158.3	1158.9	1156.6	1154.3	1154.3	1153.7	1154.3
7.5°	1138.0	1138.6	1135.1	1133.9	1131.6	1132.2	1132.2
10°	1117.7	1117.7	1112.4	1111.8	1110.1	1109.5	1109.5
12.5°	1097.9	1096.1	1092.1	1089.8	1090.9	1087.4	1087.4
15°	1080.5	1077.6	1072.3	1070.6	1067.7	1066.5	1066.5
17.5°	1062.4	1060.1	1055.5	1052.0	1048.5	1047.9	1048.5
20°	1045.0	1042.7	1036.9	1034.5	1031.6	1031.6	1030.5
22.5°	1027.6	1025.2	1020.0	1018.3	1014.2	1014.2	1014.8
25°	1009.5	1007.8	1002.0	1000.8	1000.3	997.9	999.1
27.5°	985.1	984.0	979.3	977.6	975.3	974.7	975.8
30°	940.4	938.6	935.2	933.4	929.4	929.9	931.1
32.5°	884.6	882.3	877.6	875.9	872.4	871.2	871.8
35°	814.9	813.1	809.0	809.0	805.6	804.4	805.6
37.5°	744.0	745.7	744.0	745.7	744.0	743.4	744.0
40°	677.1	683.5	684.6	691.1	688.7	692.2	691.6
42.5°	613.2	623.6	627.7	632.9	631.8	634.1	635.8
45°	548.6	557.4	561.4	564.9	565.5	566.7	567.3
47.5°	487.6	494.6	495.2	499.2	498.7	498.7	500.4
50°	430.7	435.3	436.5	439.4	437.1	435.9	436.5
52.5°	377.8	382.4	381.3	382.4	379.5	378.4	378.9
55°	323.7	326.0	326.0	326.0	322.6	322.6	322.6
57.5°	268.5	269.1	267.9	268.5	267.9	264.4	263.9
60°	218.0	218.0	217.4	218.0	216.2	214.5	214.5
62.5°	170.3	171.5	173.8	171.5	170.3	171.5	169.7
65°	127.3	129.6	129.0	130.2	129.6	129.6	128.4
67.5°	95.9	96.5	97.1	97.7	97.7	97.7	97.7
70°	70.3	72.1	71.5	71.5	71.5	71.5	75.0
72.5°	47.1	49.4	48.8	50.0	50.0	51.1	50.0
75°	32.0	34.3	33.1	34.9	34.3	33.1	36.0
77.5°	21.5	22.7	23.3	23.8	23.3	22.7	23.3
80°	15.1	16.3	15.7	16.3	16.3	16.3	16.9
82.5°	9.3	11.1	10.5	11.1	10.5	11.1	11.1
85°	6.4	7.0	5.8	7.0	6.4	6.4	7.6
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)