

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: P245834

Luminaire Tested: **LD8B20D010 ER8B20840 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245834
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 ER8B20840 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2017.0 lumens
Efficiency: N/A
Efficacy: 94.7 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

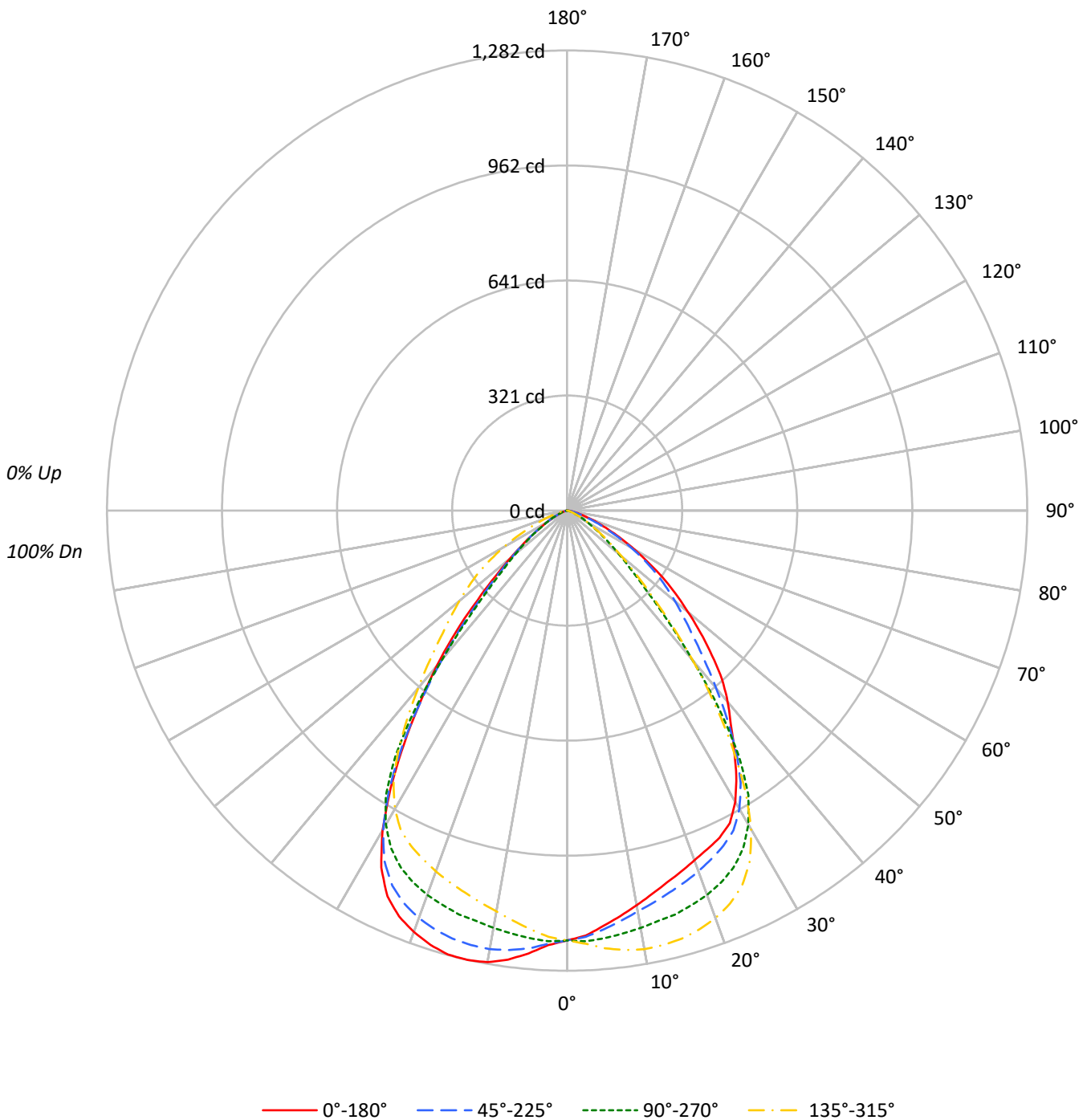
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	36923	36923	36923	36923
5°	35944	37012	38334	37012
10°	34950	36964	40001	36964
15°	34251	37182	40879	37182
20°	34016	37396	40983	37396
25°	34198	37321	40325	37321
30°	33349	35952	36600	35952
35°	30507	31365	29758	31365
40°	28009	21818	22784	21818
45°	24888	13310	15398	13310
50°	21065	8889	9873	8889
55°	17446	6064	6414	6064
60°	13309	4040	4077	4040
65°	9427	2517	2306	2517
70°	6798	1686	1533	1686
75°	4313	834	691	834
80°	3019	622	515	622
85°	2689	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	5.7
10°-20°	330.0	16.4
20°-30°	499.8	24.8
30°-40°	500.9	24.8
40°-50°	314.5	15.6
50°-60°	167.6	8.3
60°-70°	68.9	3.4
70°-80°	18.2	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°	943.8	46.8
0°-40°	1444.7	71.6
0°-60°	1926.8	95.5
0°-90°	2017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2017.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1197	1197	1197	1197	1197	
5°	1161	1196	1238	1196	1161	110
15°	1073	1165	1280	1165	1073	303
25°	1005	1097	1185	1097	1005	461
35°	810	833	790	833	810	508
45°	571	305	353	305	571	439
55°	324	113	119	113	324	289
65°	129	34	32	34	129	134
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°	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4
2.5°	1185.2	1184.0	1183.4	1184.6	1185.2	1187.5	1186.9	1188.1	1188.1	1188.7	1189.8
5°	1161.2	1160.6	1161.2	1161.2	1163.5	1165.9	1165.3	1167.0	1168.2	1171.1	1172.3
7.5°	1139.0	1139.0	1138.4	1140.7	1141.9	1145.4	1144.8	1147.7	1149.5	1152.4	1156.5
10°	1116.2	1116.2	1116.7	1118.5	1119.1	1124.3	1124.3	1128.4	1130.8	1133.7	1139.0
12.5°	1093.9	1093.9	1097.5	1096.3	1098.6	1102.7	1104.5	1108.6	1112.1	1117.9	1123.2
15°	1072.9	1072.9	1074.1	1077.0	1078.7	1084.0	1086.9	1091.6	1095.7	1101.5	1109.2
17.5°	1054.8	1054.2	1054.8	1058.3	1061.8	1066.5	1068.8	1074.6	1078.7	1086.3	1093.4
20°	1036.6	1037.8	1037.8	1040.7	1043.1	1048.9	1051.3	1057.7	1062.4	1069.4	1077.6
22.5°	1020.9	1020.3	1020.3	1024.4	1026.1	1031.4	1033.7	1039.6	1044.8	1050.7	1058.3
25°	1005.1	1003.9	1006.2	1006.8	1008.0	1013.8	1015.6	1019.7	1024.9	1030.2	1037.8
27.5°	981.7	980.5	981.1	983.4	985.2	989.9	991.0	995.1	999.2	1003.9	1010.3
30°	936.6	935.5	934.9	939.0	940.8	944.3	946.0	953.0	954.2	959.5	964.1
32.5°	877.0	876.4	877.6	881.1	882.9	887.6	889.9	894.0	896.9	899.8	904.5
35°	810.4	809.2	810.4	813.9	813.9	818.0	819.7	821.5	820.9	821.5	820.3
37.5°	748.4	747.8	748.4	750.1	748.4	750.1	748.4	744.9	738.5	731.4	724.4
40°	695.8	696.4	692.9	695.2	688.7	687.6	681.2	672.4	659.5	645.5	625.6
42.5°	639.7	637.9	635.6	636.7	631.5	627.4	616.8	605.7	589.4	566.0	542.0
45°	570.7	570.1	568.9	568.3	564.8	560.7	551.9	539.1	521.0	497.0	468.3
47.5°	503.4	501.7	501.7	502.2	498.1	497.6	490.5	479.4	463.7	440.3	410.4
50°	439.1	438.5	439.7	442.0	439.1	437.9	433.3	425.7	411.6	391.7	363.7
52.5°	381.2	380.6	381.8	384.7	383.5	384.7	380.1	374.2	364.8	345.5	321.0
55°	324.5	324.5	324.5	328.0	328.0	328.0	325.7	322.2	313.4	299.4	276.6
57.5°	265.4	266.0	269.5	270.1	269.5	270.7	270.1	266.6	260.8	250.8	233.3
60°	215.8	215.8	217.5	219.3	218.7	219.3	219.3	217.5	211.7	203.5	189.4
62.5°	170.7	172.5	171.3	172.5	174.8	172.5	171.3	170.1	166.1	160.8	149.1
65°	129.2	130.4	130.4	131.0	129.8	130.4	128.1	126.3	124.0	118.1	110.5
67.5°	98.2	98.2	98.2	98.2	97.6	97.1	96.5	94.7	90.6	88.3	80.1
70°	75.4	71.9	71.9	71.9	71.9	72.5	70.8	68.4	67.2	63.1	57.3
72.5°	50.3	51.5	50.3	50.3	49.1	49.7	47.4	46.2	45.0	42.7	39.2
75°	36.2	33.3	34.5	35.1	33.3	34.5	32.2	29.8	29.8	28.1	26.3
77.5°	23.4	22.8	23.4	24.0	23.4	22.8	21.6	20.5	20.5	19.9	18.1
80°	17.0	16.4	16.4	16.4	15.8	16.4	15.2	15.2	14.0	13.5	12.3
82.5°	11.1	11.1	10.5	11.1	10.5	11.1	9.4	9.4	9.4	8.8	7.6
85°	7.6	6.4	6.4	7.0	5.8	7.0	6.4	5.8	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	2.3	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°	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4
2.5°	1191.6	1192.2	1192.2	1194.5	1195.7	1196.2	1196.2	1200.9	1199.2	1200.4	1201.5
5°	1174.6	1178.1	1179.3	1179.3	1185.7	1188.1	1190.4	1195.7	1196.2	1199.8	1203.9
7.5°	1158.2	1162.3	1164.7	1169.9	1174.0	1178.1	1185.2	1188.7	1192.2	1196.9	1202.1
10°	1142.5	1147.2	1151.8	1155.9	1162.3	1167.6	1172.3	1180.5	1184.6	1191.0	1198.0
12.5°	1127.3	1133.7	1137.8	1144.8	1151.8	1156.5	1163.5	1171.1	1177.6	1184.0	1192.2
15°	1113.8	1121.4	1126.1	1133.7	1141.3	1147.7	1155.3	1164.7	1169.4	1177.0	1184.6
17.5°	1099.2	1107.4	1113.2	1120.2	1129.6	1136.6	1143.1	1152.4	1158.2	1166.4	1175.2
20°	1084.0	1092.2	1099.2	1106.2	1115.6	1122.6	1130.2	1139.6	1146.0	1154.2	1161.2
22.5°	1065.9	1073.5	1081.1	1089.3	1098.6	1104.5	1113.2	1121.4	1128.4	1136.0	1143.1
25°	1042.5	1051.9	1057.7	1065.3	1072.9	1079.3	1088.7	1096.9	1102.7	1109.7	1116.2
27.5°	1015.0	1022.0	1026.7	1033.1	1040.7	1046.6	1053.6	1061.8	1067.6	1074.1	1078.7
30°	968.2	974.7	978.8	983.4	991.0	996.3	1002.2	1009.7	1013.8	1018.5	1022.6
32.5°	906.8	912.1	914.4	918.0	923.2	928.5	933.2	939.6	941.3	944.3	944.3
35°	818.0	819.1	818.6	819.7	822.1	825.0	829.1	833.2	835.5	835.5	833.8
37.5°	713.9	706.9	699.3	693.4	691.7	690.5	692.9	694.6	697.0	698.1	695.2
40°	605.7	590.0	573.0	557.8	547.3	542.6	540.8	542.0	542.0	546.1	546.1
42.5°	512.8	488.2	463.1	440.3	425.1	413.4	408.1	408.1	408.7	411.6	413.4
45°	435.6	404.6	375.4	350.2	329.2	314.0	307.0	305.2	304.6	305.8	309.9
47.5°	376.5	344.4	314.0	283.0	260.8	245.6	239.1	236.8	234.5	236.8	237.4
50°	330.4	297.0	264.9	233.9	210.5	197.0	188.8	185.3	184.8	184.8	185.9
52.5°	288.2	257.3	225.1	193.5	169.0	156.1	148.5	146.8	144.4	146.8	146.8
55°	248.5	217.5	185.9	156.1	135.6	122.2	115.2	112.8	111.7	113.4	113.4
57.5°	205.2	178.9	149.7	122.8	102.3	93.0	87.7	84.8	84.2	85.4	84.2
60°	168.4	146.2	121.0	96.5	80.7	70.8	66.7	65.5	64.3	65.5	65.5
62.5°	133.3	114.6	94.1	75.4	62.0	55.0	50.3	50.3	49.7	49.7	50.3
65°	98.8	84.2	69.6	53.8	43.3	38.0	34.5	34.5	33.9	34.5	33.9
67.5°	71.9	62.0	50.3	39.2	31.0	28.1	25.7	24.0	25.1	24.0	23.4
70°	52.6	44.4	36.2	29.8	24.0	21.1	19.3	18.7	17.5	17.5	17.5
72.5°	35.1	29.8	24.5	19.3	15.8	12.9	12.3	11.1	9.9	10.5	11.7
75°	23.4	19.9	17.5	14.0	10.5	10.5	7.0	7.0	5.8	7.0	5.3
77.5°	16.4	13.5	10.5	8.8	7.0	6.4	4.7	4.7	4.1	4.1	4.1
80°	11.7	9.9	7.6	6.4	4.7	4.7	4.1	3.5	2.9	2.9	3.5
82.5°	7.0	5.3	5.3	4.7	2.9	2.3	1.8	2.3	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°	2.3	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°	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4
2.5°	1204.5	1203.9	1205.0	1205.0	1208.5	1207.9	1209.7	1209.7	1208.5	1209.1	1211.5
5°	1208.5	1210.3	1213.8	1216.7	1222.0	1224.3	1227.2	1230.2	1230.8	1232.5	1234.3
7.5°	1208.5	1214.4	1218.5	1223.7	1230.8	1234.9	1241.3	1246.5	1248.9	1251.8	1255.3
10°	1206.2	1212.0	1219.6	1225.5	1234.3	1240.7	1247.1	1255.3	1258.8	1263.5	1268.2
12.5°	1201.5	1207.9	1216.1	1223.7	1233.7	1239.5	1247.7	1255.3	1260.6	1267.0	1272.3
15°	1194.5	1202.1	1209.7	1217.3	1227.8	1234.9	1242.5	1251.2	1256.5	1263.5	1268.2
17.5°	1183.4	1191.6	1198.6	1205.6	1215.6	1223.7	1230.8	1238.9	1244.2	1250.1	1256.5
20°	1169.9	1177.6	1185.2	1191.0	1200.9	1207.9	1215.6	1223.2	1227.2	1228.4	1238.4
22.5°	1153.0	1158.2	1164.1	1173.5	1179.3	1185.7	1192.8	1199.8	1203.9	1210.3	1213.8
25°	1124.9	1130.2	1136.6	1140.7	1147.7	1153.0	1160.0	1167.6	1169.9	1174.6	1178.1
27.5°	1085.8	1088.7	1091.6	1095.1	1099.2	1102.1	1106.2	1109.7	1112.1	1114.4	1116.7
30°	1023.8	1023.8	1023.8	1021.4	1023.2	1024.9	1025.5	1024.9	1024.9	1024.4	1024.4
32.5°	941.9	937.3	932.0	927.3	925.6	923.2	922.0	920.3	917.4	915.6	916.2
35°	831.4	820.9	814.5	808.6	803.9	800.4	798.7	796.9	796.3	794.0	791.7
37.5°	693.4	685.8	681.2	677.7	673.6	670.0	670.6	671.2	673.0	671.8	672.4
40°	547.3	545.5	547.3	543.2	542.0	543.2	546.1	550.2	552.5	554.9	559.0
42.5°	416.3	419.2	423.3	423.3	425.1	427.4	430.9	437.4	440.8	444.9	449.6
45°	313.4	316.9	322.2	323.9	325.1	328.0	332.1	337.4	339.7	343.2	347.3
47.5°	241.5	243.8	246.7	249.7	252.6	253.8	257.8	257.8	260.8	263.1	264.3
50°	188.3	190.6	192.9	194.7	195.9	197.6	198.8	200.5	201.1	202.3	202.9
52.5°	147.3	150.3	150.3	151.4	153.2	154.9	154.4	154.9	155.5	155.5	157.3
55°	115.2	115.2	116.9	116.9	118.1	117.5	118.1	118.1	118.1	118.1	118.7
57.5°	85.9	86.5	88.3	87.1	86.5	87.7	86.5	87.7	87.1	88.3	86.5
60°	66.1	66.1	66.7	66.7	67.2	67.2	67.2	66.7	66.7	66.1	66.1
62.5°	49.7	50.3	50.9	50.3	50.3	50.3	49.7	49.7	49.1	48.5	48.5
65°	33.3	32.8	33.9	32.8	33.3	33.3	32.8	33.3	31.6	32.2	31.6
67.5°	24.0	23.4	22.8	23.4	22.8	22.2	22.2	22.8	23.4	21.6	21.6
70°	15.8	16.4	15.8	16.4	17.0	17.0	16.4	15.8	16.4	15.2	15.8
72.5°	9.9	9.9	9.9	9.9	9.9	10.5	10.5	10.5	9.4	9.4	8.8
75°	4.7	6.4	5.3	4.7	6.4	6.4	5.8	5.8	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°	2.3	2.3	2.3	1.8	2.3	2.3	2.9	2.3	2.3	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: P245834

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4
2.5°	1210.9	1210.3	1210.9	1211.5	1210.9	1210.3	1210.9	1211.5	1209.1	1208.5	1209.7
5°	1236.6	1236.6	1237.8	1238.4	1237.8	1236.6	1236.6	1234.3	1232.5	1230.8	1230.2
7.5°	1258.8	1260.0	1261.2	1261.7	1261.2	1260.0	1258.8	1255.3	1251.8	1248.9	1246.5
10°	1272.3	1274.0	1276.4	1277.5	1276.4	1274.0	1272.3	1268.2	1263.5	1258.8	1255.3
12.5°	1278.1	1279.9	1282.8	1282.2	1282.8	1279.9	1278.1	1272.3	1267.0	1260.6	1255.3
15°	1274.0	1276.4	1279.3	1280.5	1279.3	1276.4	1274.0	1268.2	1263.5	1256.5	1251.2
17.5°	1261.2	1264.7	1266.4	1268.2	1266.4	1264.7	1261.2	1256.5	1250.1	1244.2	1238.9
20°	1243.6	1246.0	1248.3	1248.9	1248.3	1246.0	1243.6	1238.4	1228.4	1227.2	1223.2
22.5°	1218.5	1220.2	1225.5	1223.7	1225.5	1220.2	1218.5	1213.8	1210.3	1203.9	1199.8
25°	1182.2	1184.0	1184.6	1185.2	1184.6	1184.0	1182.2	1178.1	1174.6	1169.9	1167.6
27.5°	1119.7	1119.7	1120.8	1121.4	1120.8	1119.7	1119.7	1116.7	1114.4	1112.1	1109.7
30°	1024.9	1024.9	1024.9	1027.9	1024.9	1024.9	1024.9	1024.4	1024.4	1024.9	1024.9
32.5°	915.6	914.4	913.3	914.4	913.3	914.4	915.6	916.2	915.6	917.4	920.3
35°	791.7	791.1	792.8	790.5	792.8	791.1	791.7	791.7	794.0	796.3	796.9
37.5°	673.0	671.8	674.1	671.8	674.1	671.8	673.0	672.4	671.8	673.0	671.2
40°	560.1	561.3	561.3	566.0	561.3	561.3	560.1	559.0	554.9	552.5	550.2
42.5°	452.0	455.5	454.3	457.8	454.3	455.5	452.0	449.6	444.9	440.8	437.4
45°	349.6	352.0	352.0	353.1	352.0	352.0	349.6	347.3	343.2	339.7	337.4
47.5°	268.4	268.4	268.4	269.0	268.4	268.4	268.4	264.3	263.1	260.8	257.8
50°	204.1	204.6	205.2	205.8	205.2	204.6	204.1	202.9	202.3	201.1	200.5
52.5°	156.7	157.3	156.1	157.3	156.1	157.3	156.7	157.3	155.5	155.5	154.9
55°	118.7	118.1	118.7	119.3	118.7	118.1	118.7	118.7	118.1	118.1	118.1
57.5°	87.1	85.9	85.9	85.9	85.9	85.9	87.1	86.5	88.3	87.1	87.7
60°	64.9	65.5	65.5	66.1	65.5	65.5	64.9	66.1	66.1	66.7	66.7
62.5°	47.9	49.7	48.5	49.7	48.5	49.7	47.9	48.5	48.5	49.1	49.7
65°	31.0	31.0	31.0	31.6	31.0	31.0	31.0	31.6	32.2	31.6	33.3
67.5°	21.1	21.6	22.8	22.2	22.8	21.6	21.1	21.6	21.6	23.4	22.8
70°	17.0	15.2	15.2	17.0	15.2	15.2	17.0	15.8	15.2	16.4	15.8
72.5°	9.9	8.8	9.9	9.9	9.9	8.8	9.9	8.8	9.4	9.4	10.5
75°	5.3	4.7	4.1	5.8	4.1	4.7	5.3	5.3	5.3	5.3	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°	1.8	2.3	1.8	2.9	1.8	2.3	1.8	2.9	1.8	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: P245834

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4
2.5°	1209.7	1207.9	1208.5	1205.0	1205.0	1203.9	1204.5	1201.5	1200.4	1199.2	1200.9
5°	1227.2	1224.3	1222.0	1216.7	1213.8	1210.3	1208.5	1203.9	1199.8	1196.2	1195.7
7.5°	1241.3	1234.9	1230.8	1223.7	1218.5	1214.4	1208.5	1202.1	1196.9	1192.2	1188.7
10°	1247.1	1240.7	1234.3	1225.5	1219.6	1212.0	1206.2	1198.0	1191.0	1184.6	1180.5
12.5°	1247.7	1239.5	1233.7	1223.7	1216.1	1207.9	1201.5	1192.2	1184.0	1177.6	1171.1
15°	1242.5	1234.9	1227.8	1217.3	1209.7	1202.1	1194.5	1184.6	1177.0	1169.4	1164.7
17.5°	1230.8	1223.7	1215.6	1205.6	1198.6	1191.6	1183.4	1175.2	1166.4	1158.2	1152.4
20°	1215.6	1207.9	1200.9	1191.0	1185.2	1177.6	1169.9	1161.2	1154.2	1146.0	1139.6
22.5°	1192.8	1185.7	1179.3	1173.5	1164.1	1158.2	1153.0	1143.1	1136.0	1128.4	1121.4
25°	1160.0	1153.0	1147.7	1140.7	1136.6	1130.2	1124.9	1116.2	1109.7	1102.7	1096.9
27.5°	1106.2	1102.1	1099.2	1095.1	1091.6	1088.7	1085.8	1078.7	1074.1	1067.6	1061.8
30°	1025.5	1024.9	1023.2	1021.4	1023.8	1023.8	1023.8	1022.6	1018.5	1013.8	1009.7
32.5°	922.0	923.2	925.6	927.3	932.0	937.3	941.9	944.3	944.3	941.3	939.6
35°	798.7	800.4	803.9	808.6	814.5	820.9	831.4	833.8	835.5	835.5	833.2
37.5°	670.6	670.0	673.6	677.7	681.2	685.8	693.4	695.2	698.1	697.0	694.6
40°	546.1	543.2	542.0	543.2	547.3	545.5	547.3	546.1	546.1	542.0	542.0
42.5°	430.9	427.4	425.1	423.3	423.3	419.2	416.3	413.4	411.6	408.7	408.1
45°	332.1	328.0	325.1	323.9	322.2	316.9	313.4	309.9	305.8	304.6	305.2
47.5°	257.8	253.8	252.6	249.7	246.7	243.8	241.5	237.4	236.8	234.5	236.8
50°	198.8	197.6	195.9	194.7	192.9	190.6	188.3	185.9	184.8	184.8	185.3
52.5°	154.4	154.9	153.2	151.4	150.3	150.3	147.3	146.8	146.8	144.4	146.8
55°	118.1	117.5	118.1	116.9	116.9	115.2	115.2	113.4	113.4	111.7	112.8
57.5°	86.5	87.7	86.5	87.1	88.3	86.5	85.9	84.2	85.4	84.2	84.8
60°	67.2	67.2	67.2	66.7	66.7	66.1	66.1	65.5	65.5	64.3	65.5
62.5°	49.7	50.3	50.3	50.3	50.9	50.3	49.7	50.3	49.7	49.7	50.3
65°	32.8	33.3	33.3	32.8	33.9	32.8	33.3	33.9	34.5	33.9	34.5
67.5°	22.2	22.2	22.8	23.4	22.8	23.4	24.0	23.4	24.0	25.1	24.0
70°	16.4	17.0	17.0	16.4	15.8	16.4	15.8	17.5	17.5	17.5	18.7
72.5°	10.5	10.5	9.9	9.9	9.9	9.9	9.9	11.7	10.5	9.9	11.1
75°	5.8	6.4	6.4	4.7	5.3	6.4	4.7	5.3	7.0	5.8	7.0
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	2.3	2.3	1.8	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: P245834

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4
2.5°	1196.2	1196.2	1195.7	1194.5	1192.2	1192.2	1191.6	1189.8	1188.7	1188.1	1188.1
5°	1190.4	1188.1	1185.7	1179.3	1179.3	1178.1	1174.6	1172.3	1171.1	1168.2	1167.0
7.5°	1185.2	1178.1	1174.0	1169.9	1164.7	1162.3	1158.2	1156.5	1152.4	1149.5	1147.7
10°	1172.3	1167.6	1162.3	1155.9	1151.8	1147.2	1142.5	1139.0	1133.7	1130.8	1128.4
12.5°	1163.5	1156.5	1151.8	1144.8	1137.8	1133.7	1127.3	1123.2	1117.9	1112.1	1108.6
15°	1155.3	1147.7	1141.3	1133.7	1126.1	1121.4	1113.8	1109.2	1101.5	1095.7	1091.6
17.5°	1143.1	1136.6	1129.6	1120.2	1113.2	1107.4	1099.2	1093.4	1086.3	1078.7	1074.6
20°	1130.2	1122.6	1115.6	1106.2	1099.2	1092.2	1084.0	1077.6	1069.4	1062.4	1057.7
22.5°	1113.2	1104.5	1098.6	1089.3	1081.1	1073.5	1065.9	1058.3	1050.7	1044.8	1039.6
25°	1088.7	1079.3	1072.9	1065.3	1057.7	1051.9	1042.5	1037.8	1030.2	1024.9	1019.7
27.5°	1053.6	1046.6	1040.7	1033.1	1026.7	1022.0	1015.0	1010.3	1003.9	999.2	995.1
30°	1002.2	996.3	991.0	983.4	978.8	974.7	968.2	964.1	959.5	954.2	953.0
32.5°	933.2	928.5	923.2	918.0	914.4	912.1	906.8	904.5	899.8	896.9	894.0
35°	829.1	825.0	822.1	819.7	818.6	819.1	818.0	820.3	821.5	820.9	821.5
37.5°	692.9	690.5	691.7	693.4	699.3	706.9	713.9	724.4	731.4	738.5	744.9
40°	540.8	542.6	547.3	557.8	573.0	590.0	605.7	625.6	645.5	659.5	672.4
42.5°	408.1	413.4	425.1	440.3	463.1	488.2	512.8	542.0	566.0	589.4	605.7
45°	307.0	314.0	329.2	350.2	375.4	404.6	435.6	468.3	497.0	521.0	539.1
47.5°	239.1	245.6	260.8	283.0	314.0	344.4	376.5	410.4	440.3	463.7	479.4
50°	188.8	197.0	210.5	233.9	264.9	297.0	330.4	363.7	391.7	411.6	425.7
52.5°	148.5	156.1	169.0	193.5	225.1	257.3	288.2	321.0	345.5	364.8	374.2
55°	115.2	122.2	135.6	156.1	185.9	217.5	248.5	276.6	299.4	313.4	322.2
57.5°	87.7	93.0	102.3	122.8	149.7	178.9	205.2	233.3	250.8	260.8	266.6
60°	66.7	70.8	80.7	96.5	121.0	146.2	168.4	189.4	203.5	211.7	217.5
62.5°	50.3	55.0	62.0	75.4	94.1	114.6	133.3	149.1	160.8	166.1	170.1
65°	34.5	38.0	43.3	53.8	69.6	84.2	98.8	110.5	118.1	124.0	126.3
67.5°	25.7	28.1	31.0	39.2	50.3	62.0	71.9	80.1	88.3	90.6	94.7
70°	19.3	21.1	24.0	29.8	36.2	44.4	52.6	57.3	63.1	67.2	68.4
72.5°	12.3	12.9	15.8	19.3	24.5	29.8	35.1	39.2	42.7	45.0	46.2
75°	7.0	10.5	10.5	14.0	17.5	19.9	23.4	26.3	28.1	29.8	29.8
77.5°	4.7	6.4	7.0	8.8	10.5	13.5	16.4	18.1	19.9	20.5	20.5
80°	4.1	4.7	4.7	6.4	7.6	9.9	11.7	12.3	13.5	14.0	15.2
82.5°	1.8	2.3	2.9	4.7	5.3	5.3	7.0	7.6	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	5.8
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: P245834

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4	1197.4
2.5°	1186.9	1187.5	1185.2	1184.6	1183.4	1184.0	1185.2
5°	1165.3	1165.9	1163.5	1161.2	1161.2	1160.6	1161.2
7.5°	1144.8	1145.4	1141.9	1140.7	1138.4	1139.0	1139.0
10°	1124.3	1124.3	1119.1	1118.5	1116.7	1116.2	1116.2
12.5°	1104.5	1102.7	1098.6	1096.3	1097.5	1093.9	1093.9
15°	1086.9	1084.0	1078.7	1077.0	1074.1	1072.9	1072.9
17.5°	1068.8	1066.5	1061.8	1058.3	1054.8	1054.2	1054.8
20°	1051.3	1048.9	1043.1	1040.7	1037.8	1037.8	1036.6
22.5°	1033.7	1031.4	1026.1	1024.4	1020.3	1020.3	1020.9
25°	1015.6	1013.8	1008.0	1006.8	1006.2	1003.9	1005.1
27.5°	991.0	989.9	985.2	983.4	981.1	980.5	981.7
30°	946.0	944.3	940.8	939.0	934.9	935.5	936.6
32.5°	889.9	887.6	882.9	881.1	877.6	876.4	877.0
35°	819.7	818.0	813.9	813.9	810.4	809.2	810.4
37.5°	748.4	750.1	748.4	750.1	748.4	747.8	748.4
40°	681.2	687.6	688.7	695.2	692.9	696.4	695.8
42.5°	616.8	627.4	631.5	636.7	635.6	637.9	639.7
45°	551.9	560.7	564.8	568.3	568.9	570.1	570.7
47.5°	490.5	497.6	498.1	502.2	501.7	501.7	503.4
50°	433.3	437.9	439.1	442.0	439.7	438.5	439.1
52.5°	380.1	384.7	383.5	384.7	381.8	380.6	381.2
55°	325.7	328.0	328.0	328.0	324.5	324.5	324.5
57.5°	270.1	270.7	269.5	270.1	269.5	266.0	265.4
60°	219.3	219.3	218.7	219.3	217.5	215.8	215.8
62.5°	171.3	172.5	174.8	172.5	171.3	172.5	170.7
65°	128.1	130.4	129.8	131.0	130.4	130.4	129.2
67.5°	96.5	97.1	97.6	98.2	98.2	98.2	98.2
70°	70.8	72.5	71.9	71.9	71.9	71.9	75.4
72.5°	47.4	49.7	49.1	50.3	50.3	51.5	50.3
75°	32.2	34.5	33.3	35.1	34.5	33.3	36.2
77.5°	21.6	22.8	23.4	24.0	23.4	22.8	23.4
80°	15.2	16.4	15.8	16.4	16.4	16.4	17.0
82.5°	9.4	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)