

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: P245840

Luminaire Tested: **LD8B20D010 ER8B20850 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245840
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 ER8B20850 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2056.0 lumens
Efficiency: N/A
Efficacy: 96.5 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

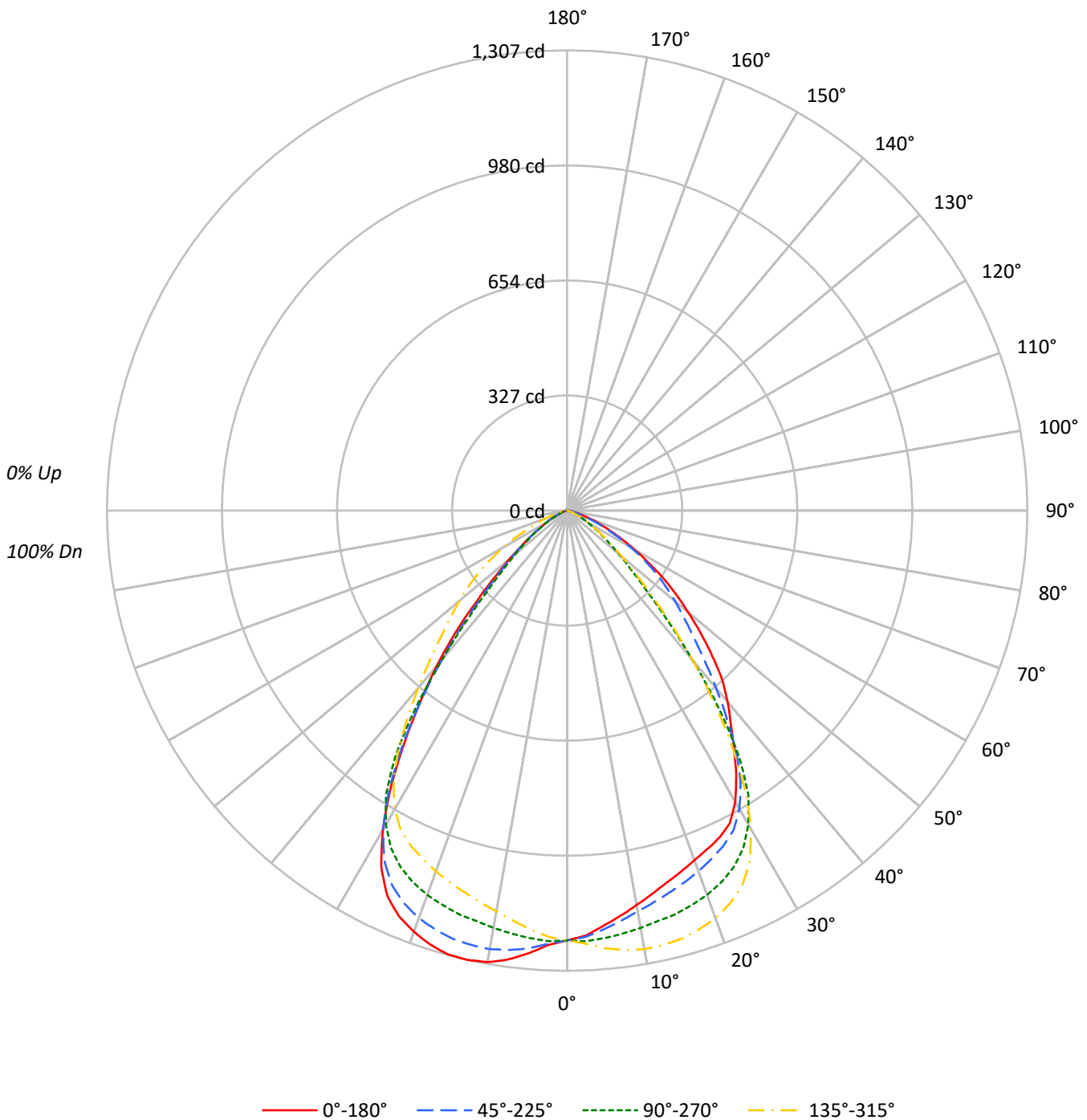
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	37639	37639	37639	37639
5°	36637	37727	39073	37727
10°	35624	37678	40775	37678
15°	34912	37900	41667	37900
20°	34676	38118	41774	38118
25°	34858	38042	41105	38042
30°	33997	36650	37309	36650
35°	31094	31971	30334	31971
40°	28548	22240	23223	22240
45°	25367	13567	15699	13567
50°	21473	9062	10065	9062
55°	17784	6183	6537	6183
60°	13562	4114	4151	4114
65°	9609	2568	2349	2568
70°	6933	1722	1560	1722
75°	4396	858	715	858
80°	3072	639	533	639
85°	2760	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	5.7
10°-20°	336.4	16.4
20°-30°	509.4	24.8
30°-40°	510.6	24.8
40°-50°	320.6	15.6
50°-60°	170.8	8.3
60°-70°	70.3	3.4
70°-80°	18.6	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°	962.0	46.8
0°-40°	1472.6	71.6
0°-60°	1964.0	95.5
0°-90°	2056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2056.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1221	1221	1221	1221	1221	
5°	1184	1219	1262	1219	1184	112
15°	1094	1187	1305	1187	1094	309
25°	1024	1118	1208	1118	1024	470
35°	826	849	806	849	826	518
45°	582	311	360	311	582	447
55°	331	115	122	115	331	295
65°	132	35	32	35	132	137
75°	37	7	6	7	37	42
85°	8	0	1	0	8	9
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°	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6
2.5°	1208.1	1206.9	1206.3	1207.5	1208.1	1210.5	1209.9	1211.0	1211.0	1211.7	1212.8
5°	1183.6	1183.0	1183.6	1183.6	1186.0	1188.4	1187.8	1189.6	1190.8	1193.8	1194.9
7.5°	1161.0	1161.0	1160.4	1162.8	1164.0	1167.5	1166.9	1169.9	1171.7	1174.7	1178.9
10°	1137.7	1137.7	1138.3	1140.1	1140.7	1146.1	1146.1	1150.3	1152.6	1155.6	1161.0
12.5°	1115.1	1115.1	1118.7	1117.5	1119.9	1124.0	1125.8	1130.0	1133.6	1139.5	1144.9
15°	1093.6	1093.6	1094.8	1097.8	1099.6	1105.0	1107.9	1112.7	1116.9	1122.8	1130.6
17.5°	1075.2	1074.6	1075.2	1078.7	1082.3	1087.1	1089.5	1095.4	1099.6	1107.3	1114.5
20°	1056.7	1057.9	1057.9	1060.9	1063.2	1069.2	1071.6	1078.2	1082.9	1090.1	1098.4
22.5°	1040.6	1040.0	1040.0	1044.2	1046.0	1051.3	1053.7	1059.7	1065.0	1071.0	1078.7
25°	1024.5	1023.3	1025.7	1026.3	1027.5	1033.4	1035.2	1039.4	1044.8	1050.1	1057.9
27.5°	1000.7	999.5	1000.1	1002.4	1004.2	1009.0	1010.2	1014.4	1018.5	1023.3	1029.9
30°	954.8	953.6	953.0	957.2	959.0	962.5	964.3	971.5	972.6	978.0	982.8
32.5°	894.0	893.4	894.6	898.1	899.9	904.7	907.1	911.3	914.2	917.2	922.0
35°	826.0	824.8	826.0	829.6	829.6	833.8	835.6	837.4	836.8	837.4	836.2
37.5°	762.9	762.3	762.9	764.6	762.9	764.6	762.9	759.3	752.7	745.6	738.4
40°	709.2	709.8	706.3	708.6	702.1	700.9	694.3	685.4	672.3	658.0	637.7
42.5°	652.0	650.2	647.8	649.0	643.7	639.5	628.8	617.5	600.7	576.9	552.5
45°	581.7	581.1	579.9	579.3	575.7	571.6	562.6	549.5	531.0	506.6	477.4
47.5°	513.1	511.4	511.4	511.9	507.8	507.2	500.0	488.7	472.6	448.8	418.4
50°	447.6	447.0	448.2	450.6	447.6	446.4	441.6	433.9	419.6	399.3	370.7
52.5°	388.6	388.0	389.2	392.2	391.0	392.2	387.4	381.4	371.9	352.2	327.2
55°	330.8	330.8	330.8	334.3	334.3	334.3	332.0	328.4	319.4	305.1	281.9
57.5°	270.6	271.2	274.8	275.3	274.8	276.0	275.3	271.8	265.8	255.7	237.8
60°	219.9	219.9	221.7	223.5	222.9	223.5	223.5	221.7	215.8	207.4	193.1
62.5°	174.0	175.8	174.6	175.8	178.2	175.8	174.6	173.4	169.3	163.9	152.0
65°	131.7	132.9	132.9	133.5	132.3	132.9	130.5	128.7	126.4	120.4	112.6
67.5°	100.1	100.1	100.1	100.1	99.5	98.9	98.3	96.6	92.4	90.0	81.6
70°	76.9	73.3	73.3	73.3	73.3	73.9	72.1	69.7	68.5	64.4	58.4
72.5°	51.2	52.4	51.2	51.2	50.1	50.7	48.3	47.1	45.9	43.5	39.9
75°	36.9	34.0	35.2	35.8	34.0	35.2	32.8	30.4	30.4	28.6	26.8
77.5°	23.8	23.3	23.8	24.4	23.8	23.3	22.1	20.9	20.9	20.3	18.5
80°	17.3	16.7	16.7	16.7	16.1	16.7	15.5	15.5	14.3	13.7	12.5
82.5°	11.3	11.3	10.7	11.3	10.7	11.3	9.5	9.5	9.5	8.9	7.8
85°	7.8	6.5	6.5	7.2	6.0	7.2	6.5	6.0	5.4	5.4	4.8
87.5°	3.6	4.2	3.6	4.2	3.6	3.6	4.2	3.6	3.6	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°	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6
2.5°	1214.6	1215.2	1215.2	1217.6	1218.8	1219.4	1219.4	1224.2	1222.4	1223.6	1224.8
5°	1197.4	1200.9	1202.1	1202.1	1208.7	1211.0	1213.4	1218.8	1219.4	1223.0	1227.1
7.5°	1180.6	1184.8	1187.2	1192.6	1196.7	1200.9	1208.1	1211.7	1215.2	1220.0	1225.3
10°	1164.6	1169.3	1174.1	1178.3	1184.8	1190.2	1194.9	1203.3	1207.5	1214.0	1221.2
12.5°	1149.1	1155.6	1159.8	1166.9	1174.1	1178.9	1186.0	1193.8	1200.3	1206.9	1215.2
15°	1135.4	1143.1	1147.9	1155.6	1163.4	1169.9	1177.7	1187.2	1192.0	1199.7	1207.5
17.5°	1120.4	1128.8	1134.8	1141.9	1151.5	1158.6	1165.2	1174.7	1180.6	1189.0	1197.9
20°	1105.0	1113.3	1120.4	1127.6	1137.2	1144.3	1152.0	1161.6	1168.1	1176.5	1183.6
22.5°	1086.5	1094.2	1102.0	1110.3	1119.9	1125.8	1134.8	1143.1	1150.3	1158.0	1165.2
25°	1062.6	1072.2	1078.2	1085.9	1093.6	1100.2	1109.7	1118.1	1124.0	1131.2	1137.7
27.5°	1034.6	1041.8	1046.6	1053.1	1060.9	1066.8	1074.0	1082.3	1088.3	1094.8	1099.6
30°	986.9	993.5	997.7	1002.4	1010.2	1015.6	1021.5	1029.3	1033.4	1038.2	1042.4
32.5°	924.4	929.7	932.1	935.7	941.1	946.4	951.2	957.8	959.5	962.5	962.5
35°	833.8	835.0	834.4	835.6	838.0	840.9	845.1	849.3	851.7	851.7	849.9
37.5°	727.7	720.6	712.8	706.8	705.1	703.9	706.3	708.0	710.4	711.6	708.6
40°	617.5	601.4	584.1	568.6	557.8	553.1	551.3	552.5	552.5	556.6	556.6
42.5°	522.7	497.6	472.0	448.8	433.3	421.4	416.0	416.0	416.6	419.6	421.4
45°	444.0	412.4	382.6	357.0	335.5	320.0	312.9	311.1	310.5	311.7	315.9
47.5°	383.8	351.0	320.0	288.5	265.8	250.3	243.8	241.4	239.0	241.4	242.0
50°	336.7	302.8	270.0	238.4	214.6	200.8	192.5	188.9	188.3	188.3	189.5
52.5°	293.8	262.2	229.5	197.3	172.2	159.1	151.4	149.6	147.2	149.6	149.6
55°	253.3	221.7	189.5	159.1	138.3	124.6	117.4	115.0	113.8	115.6	115.6
57.5°	209.2	182.4	152.6	125.2	104.3	94.8	89.4	86.4	85.8	87.0	85.8
60°	171.6	149.0	123.4	98.3	82.3	72.1	68.0	66.7	65.5	66.7	66.7
62.5°	135.9	116.8	95.9	76.9	63.2	56.0	51.2	51.2	50.7	50.7	51.2
65°	100.7	85.8	70.9	54.8	44.1	38.7	35.2	35.2	34.6	35.2	34.6
67.5°	73.3	63.2	51.2	39.9	31.6	28.6	26.2	24.4	25.6	24.4	23.8
70°	53.7	45.3	36.9	30.4	24.4	21.5	19.7	19.1	17.9	17.9	17.9
72.5°	35.8	30.4	25.0	19.7	16.1	13.1	12.5	11.3	10.1	10.7	11.9
75°	23.8	20.3	17.9	14.3	10.7	10.7	7.2	7.2	6.0	7.2	5.4
77.5°	16.7	13.7	10.7	8.9	7.2	6.5	4.8	4.8	4.2	4.2	4.2
80°	11.9	10.1	7.8	6.5	4.8	4.8	4.2	3.6	3.0	3.0	3.6
82.5°	7.2	5.4	5.4	4.8	3.0	2.4	1.8	2.4	1.2	1.2	1.2
85°	4.2	3.6	3.0	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°	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6
2.5°	1227.7	1227.1	1228.3	1228.3	1231.9	1231.3	1233.1	1233.1	1231.9	1232.5	1234.9
5°	1231.9	1233.7	1237.3	1240.3	1245.6	1248.0	1251.0	1254.0	1254.6	1256.3	1258.1
7.5°	1231.9	1237.9	1242.0	1247.4	1254.6	1258.7	1265.3	1270.7	1273.0	1276.0	1279.6
10°	1229.5	1235.5	1243.2	1249.2	1258.1	1264.7	1271.2	1279.6	1283.2	1287.9	1292.7
12.5°	1224.8	1231.3	1239.6	1247.4	1257.5	1263.5	1271.8	1279.6	1285.0	1291.5	1296.9
15°	1217.6	1225.3	1233.1	1240.8	1251.6	1258.7	1266.5	1275.4	1280.8	1287.9	1292.7
17.5°	1206.3	1214.6	1221.8	1228.9	1239.1	1247.4	1254.6	1262.9	1268.3	1274.2	1280.8
20°	1192.6	1200.3	1208.1	1214.0	1224.2	1231.3	1239.1	1246.8	1251.0	1252.2	1262.3
22.5°	1175.3	1180.6	1186.6	1196.1	1202.1	1208.7	1215.8	1223.0	1227.1	1233.7	1237.3
25°	1146.7	1152.0	1158.6	1162.8	1169.9	1175.3	1182.4	1190.2	1192.6	1197.4	1200.9
27.5°	1106.8	1109.7	1112.7	1116.3	1120.4	1123.4	1127.6	1131.2	1133.6	1135.9	1138.3
30°	1043.6	1043.6	1043.6	1041.2	1043.0	1044.8	1045.4	1044.8	1044.8	1044.2	1044.2
32.5°	960.1	955.4	950.0	945.2	943.5	941.1	939.9	938.1	935.1	933.3	933.9
35°	847.5	836.8	830.2	824.3	819.5	815.9	814.1	812.3	811.7	809.4	807.0
37.5°	706.8	699.1	694.3	690.8	686.6	683.0	683.6	684.2	686.0	684.8	685.4
40°	557.8	556.1	557.8	553.7	552.5	553.7	556.6	560.8	563.2	565.6	569.8
42.5°	424.3	427.3	431.5	431.5	433.3	435.7	439.2	445.8	449.4	453.5	458.3
45°	319.4	323.0	328.4	330.2	331.4	334.3	338.5	343.9	346.3	349.8	354.0
47.5°	246.1	248.5	251.5	254.5	257.5	258.7	262.8	262.8	265.8	268.2	269.4
50°	191.9	194.3	196.7	198.5	199.7	201.5	202.6	204.4	205.0	206.2	206.8
52.5°	150.2	153.2	153.2	154.4	156.1	157.9	157.3	157.9	158.5	158.5	160.3
55°	117.4	117.4	119.2	119.2	120.4	119.8	120.4	120.4	120.4	120.4	121.0
57.5°	87.6	88.2	90.0	88.8	88.2	89.4	88.2	89.4	88.8	90.0	88.2
60°	67.3	67.3	68.0	68.0	68.5	68.5	68.5	68.0	68.0	67.3	67.3
62.5°	50.7	51.2	51.9	51.2	51.2	51.2	50.7	50.7	50.1	49.5	49.5
65°	34.0	33.4	34.6	33.4	34.0	34.0	33.4	34.0	32.2	32.8	32.2
67.5°	24.4	23.8	23.3	23.8	23.3	22.6	22.6	23.3	23.8	22.1	22.1
70°	16.1	16.7	16.1	16.7	17.3	17.3	16.7	16.1	16.7	15.5	16.1
72.5°	10.1	10.1	10.1	10.1	10.1	10.7	10.7	10.7	9.5	9.5	8.9
75°	4.8	6.5	5.4	4.8	6.5	6.5	6.0	6.0	5.4	5.4	5.4
77.5°	4.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.0	3.6	3.0
80°	2.4	2.4	2.4	1.8	2.4	2.4	3.0	2.4	2.4	1.8	3.0
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: P245840

CATALOG NUMBER: LD8B20D010 ER8B20850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6
2.5°	1234.3	1233.7	1234.3	1234.9	1234.3	1233.7	1234.3	1234.9	1232.5	1231.9	1233.1
5°	1260.5	1260.5	1261.7	1262.3	1261.7	1260.5	1260.5	1258.1	1256.3	1254.6	1254.0
7.5°	1283.2	1284.4	1285.5	1286.1	1285.5	1284.4	1283.2	1279.6	1276.0	1273.0	1270.7
10°	1296.9	1298.7	1301.0	1302.2	1301.0	1298.7	1296.9	1292.7	1287.9	1283.2	1279.6
12.5°	1302.8	1304.6	1307.6	1307.0	1307.6	1304.6	1302.8	1296.9	1291.5	1285.0	1279.6
15°	1298.7	1301.0	1304.0	1305.2	1304.0	1301.0	1298.7	1292.7	1287.9	1280.8	1275.4
17.5°	1285.5	1289.1	1290.9	1292.7	1290.9	1289.1	1285.5	1280.8	1274.2	1268.3	1262.9
20°	1267.7	1270.1	1272.4	1273.0	1272.4	1270.1	1267.7	1262.3	1252.2	1251.0	1246.8
22.5°	1242.0	1243.8	1249.2	1247.4	1249.2	1243.8	1242.0	1237.3	1233.7	1227.1	1223.0
25°	1205.1	1206.9	1207.5	1208.1	1207.5	1206.9	1205.1	1200.9	1197.4	1192.6	1190.2
27.5°	1141.3	1141.3	1142.5	1143.1	1142.5	1141.3	1141.3	1138.3	1135.9	1133.6	1131.2
30°	1044.8	1044.8	1044.8	1047.8	1044.8	1044.8	1044.8	1044.2	1044.2	1044.8	1044.8
32.5°	933.3	932.1	930.9	932.1	930.9	932.1	933.3	933.9	933.3	935.1	938.1
35°	807.0	806.4	808.2	805.8	808.2	806.4	807.0	807.0	809.4	811.7	812.3
37.5°	686.0	684.8	687.2	684.8	687.2	684.8	686.0	685.4	684.8	686.0	684.2
40°	571.0	572.1	572.1	576.9	572.1	572.1	571.0	569.8	565.6	563.2	560.8
42.5°	460.7	464.3	463.1	466.7	463.1	464.3	460.7	458.3	453.5	449.4	445.8
45°	356.4	358.8	358.8	360.0	358.8	358.8	356.4	354.0	349.8	346.3	343.9
47.5°	273.5	273.5	273.5	274.2	273.5	273.5	273.5	269.4	268.2	265.8	262.8
50°	208.0	208.6	209.2	209.8	209.2	208.6	208.0	206.8	206.2	205.0	204.4
52.5°	159.7	160.3	159.1	160.3	159.1	160.3	159.7	160.3	158.5	158.5	157.9
55°	121.0	120.4	121.0	121.6	121.0	120.4	121.0	121.0	120.4	120.4	120.4
57.5°	88.8	87.6	87.6	87.6	87.6	87.6	88.8	88.2	90.0	88.8	89.4
60°	66.2	66.7	66.7	67.3	66.7	66.7	66.2	67.3	67.3	68.0	68.0
62.5°	48.9	50.7	49.5	50.7	49.5	50.7	48.9	49.5	49.5	50.1	50.7
65°	31.6	31.6	31.6	32.2	31.6	31.6	31.6	32.2	32.8	32.2	34.0
67.5°	21.5	22.1	23.3	22.6	23.3	22.1	21.5	22.1	22.1	23.8	23.3
70°	17.3	15.5	15.5	17.3	15.5	15.5	17.3	16.1	15.5	16.7	16.1
72.5°	10.1	8.9	10.1	10.1	10.1	8.9	10.1	8.9	9.5	9.5	10.7
75°	5.4	4.8	4.2	6.0	4.2	4.8	5.4	5.4	5.4	5.4	6.0
77.5°	3.6	3.0	4.2	4.2	4.2	3.0	3.6	3.0	3.6	3.0	3.6
80°	1.8	2.4	1.8	3.0	1.8	2.4	1.8	3.0	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: P245840

CATALOG NUMBER: LD8B20D010 ER8B20850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6
2.5°	1233.1	1231.3	1231.9	1228.3	1228.3	1227.1	1227.7	1224.8	1223.6	1222.4	1224.2
5°	1251.0	1248.0	1245.6	1240.3	1237.3	1233.7	1231.9	1227.1	1223.0	1219.4	1218.8
7.5°	1265.3	1258.7	1254.6	1247.4	1242.0	1237.9	1231.9	1225.3	1220.0	1215.2	1211.7
10°	1271.2	1264.7	1258.1	1249.2	1243.2	1235.5	1229.5	1221.2	1214.0	1207.5	1203.3
12.5°	1271.8	1263.5	1257.5	1247.4	1239.6	1231.3	1224.8	1215.2	1206.9	1200.3	1193.8
15°	1266.5	1258.7	1251.6	1240.8	1233.1	1225.3	1217.6	1207.5	1199.7	1192.0	1187.2
17.5°	1254.6	1247.4	1239.1	1228.9	1221.8	1214.6	1206.3	1197.9	1189.0	1180.6	1174.7
20°	1239.1	1231.3	1224.2	1214.0	1208.1	1200.3	1192.6	1183.6	1176.5	1168.1	1161.6
22.5°	1215.8	1208.7	1202.1	1196.1	1186.6	1180.6	1175.3	1165.2	1158.0	1150.3	1143.1
25°	1182.4	1175.3	1169.9	1162.8	1158.6	1152.0	1146.7	1137.7	1131.2	1124.0	1118.1
27.5°	1127.6	1123.4	1120.4	1116.3	1112.7	1109.7	1106.8	1099.6	1094.8	1088.3	1082.3
30°	1045.4	1044.8	1043.0	1041.2	1043.6	1043.6	1043.6	1042.4	1038.2	1033.4	1029.3
32.5°	939.9	941.1	943.5	945.2	950.0	955.4	960.1	962.5	962.5	959.5	957.8
35°	814.1	815.9	819.5	824.3	830.2	836.8	847.5	849.9	851.7	851.7	849.3
37.5°	683.6	683.0	686.6	690.8	694.3	699.1	706.8	708.6	711.6	710.4	708.0
40°	556.6	553.7	552.5	553.7	557.8	556.1	557.8	556.6	556.6	552.5	552.5
42.5°	439.2	435.7	433.3	431.5	431.5	427.3	424.3	421.4	419.6	416.6	416.0
45°	338.5	334.3	331.4	330.2	328.4	323.0	319.4	315.9	311.7	310.5	311.1
47.5°	262.8	258.7	257.5	254.5	251.5	248.5	246.1	242.0	241.4	239.0	241.4
50°	202.6	201.5	199.7	198.5	196.7	194.3	191.9	189.5	188.3	188.3	188.9
52.5°	157.3	157.9	156.1	154.4	153.2	153.2	150.2	149.6	149.6	147.2	149.6
55°	120.4	119.8	120.4	119.2	119.2	117.4	117.4	115.6	115.6	113.8	115.0
57.5°	88.2	89.4	88.2	88.8	90.0	88.2	87.6	85.8	87.0	85.8	86.4
60°	68.5	68.5	68.5	68.0	68.0	67.3	67.3	66.7	66.7	65.5	66.7
62.5°	50.7	51.2	51.2	51.2	51.9	51.2	50.7	51.2	50.7	50.7	51.2
65°	33.4	34.0	34.0	33.4	34.6	33.4	34.0	34.6	35.2	34.6	35.2
67.5°	22.6	22.6	23.3	23.8	23.3	23.8	24.4	23.8	24.4	25.6	24.4
70°	16.7	17.3	17.3	16.7	16.1	16.7	16.1	17.9	17.9	17.9	19.1
72.5°	10.7	10.7	10.1	10.1	10.1	10.1	10.1	11.9	10.7	10.1	11.3
75°	6.0	6.5	6.5	4.8	5.4	6.5	4.8	5.4	7.2	6.0	7.2
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	4.8	4.2	4.2	4.2	4.8
80°	3.0	2.4	2.4	1.8	2.4	2.4	2.4	3.6	3.0	3.0	3.6
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: P245840

CATALOG NUMBER: LD8B20D010 ER8B20850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6
2.5°	1219.4	1219.4	1218.8	1217.6	1215.2	1215.2	1214.6	1212.8	1211.7	1211.0	1211.0
5°	1213.4	1211.0	1208.7	1202.1	1202.1	1200.9	1197.4	1194.9	1193.8	1190.8	1189.6
7.5°	1208.1	1200.9	1196.7	1192.6	1187.2	1184.8	1180.6	1178.9	1174.7	1171.7	1169.9
10°	1194.9	1190.2	1184.8	1178.3	1174.1	1169.3	1164.6	1161.0	1155.6	1152.6	1150.3
12.5°	1186.0	1178.9	1174.1	1166.9	1159.8	1155.6	1149.1	1144.9	1139.5	1133.6	1130.0
15°	1177.7	1169.9	1163.4	1155.6	1147.9	1143.1	1135.4	1130.6	1122.8	1116.9	1112.7
17.5°	1165.2	1158.6	1151.5	1141.9	1134.8	1128.8	1120.4	1114.5	1107.3	1099.6	1095.4
20°	1152.0	1144.3	1137.2	1127.6	1120.4	1113.3	1105.0	1098.4	1090.1	1082.9	1078.2
22.5°	1134.8	1125.8	1119.9	1110.3	1102.0	1094.2	1086.5	1078.7	1071.0	1065.0	1059.7
25°	1109.7	1100.2	1093.6	1085.9	1078.2	1072.2	1062.6	1057.9	1050.1	1044.8	1039.4
27.5°	1074.0	1066.8	1060.9	1053.1	1046.6	1041.8	1034.6	1029.9	1023.3	1018.5	1014.4
30°	1021.5	1015.6	1010.2	1002.4	997.7	993.5	986.9	982.8	978.0	972.6	971.5
32.5°	951.2	946.4	941.1	935.7	932.1	929.7	924.4	922.0	917.2	914.2	911.3
35°	845.1	840.9	838.0	835.6	834.4	835.0	833.8	836.2	837.4	836.8	837.4
37.5°	706.3	703.9	705.1	706.8	712.8	720.6	727.7	738.4	745.6	752.7	759.3
40°	551.3	553.1	557.8	568.6	584.1	601.4	617.5	637.7	658.0	672.3	685.4
42.5°	416.0	421.4	433.3	448.8	472.0	497.6	522.7	552.5	576.9	600.7	617.5
45°	312.9	320.0	335.5	357.0	382.6	412.4	444.0	477.4	506.6	531.0	549.5
47.5°	243.8	250.3	265.8	288.5	320.0	351.0	383.8	418.4	448.8	472.6	488.7
50°	192.5	200.8	214.6	238.4	270.0	302.8	336.7	370.7	399.3	419.6	433.9
52.5°	151.4	159.1	172.2	197.3	229.5	262.2	293.8	327.2	352.2	371.9	381.4
55°	117.4	124.6	138.3	159.1	189.5	221.7	253.3	281.9	305.1	319.4	328.4
57.5°	89.4	94.8	104.3	125.2	152.6	182.4	209.2	237.8	255.7	265.8	271.8
60°	68.0	72.1	82.3	98.3	123.4	149.0	171.6	193.1	207.4	215.8	221.7
62.5°	51.2	56.0	63.2	76.9	95.9	116.8	135.9	152.0	163.9	169.3	173.4
65°	35.2	38.7	44.1	54.8	70.9	85.8	100.7	112.6	120.4	126.4	128.7
67.5°	26.2	28.6	31.6	39.9	51.2	63.2	73.3	81.6	90.0	92.4	96.6
70°	19.7	21.5	24.4	30.4	36.9	45.3	53.7	58.4	64.4	68.5	69.7
72.5°	12.5	13.1	16.1	19.7	25.0	30.4	35.8	39.9	43.5	45.9	47.1
75°	7.2	10.7	10.7	14.3	17.9	20.3	23.8	26.8	28.6	30.4	30.4
77.5°	4.8	6.5	7.2	8.9	10.7	13.7	16.7	18.5	20.3	20.9	20.9
80°	4.2	4.8	4.8	6.5	7.8	10.1	11.9	12.5	13.7	14.3	15.5
82.5°	1.8	2.4	3.0	4.8	5.4	5.4	7.2	7.8	8.9	9.5	9.5
85°	0.6	1.2	1.2	1.8	3.0	3.6	4.2	4.8	5.4	5.4	6.0
87.5°	0.6	0.6	0.0	0.6	1.2	1.2	2.4	2.4	2.4	3.6	3.6
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: P245840

CATALOG NUMBER: LD8B20D010 ER8B20850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6	1220.6
2.5°	1209.9	1210.5	1208.1	1207.5	1206.3	1206.9	1208.1
5°	1187.8	1188.4	1186.0	1183.6	1183.6	1183.0	1183.6
7.5°	1166.9	1167.5	1164.0	1162.8	1160.4	1161.0	1161.0
10°	1146.1	1146.1	1140.7	1140.1	1138.3	1137.7	1137.7
12.5°	1125.8	1124.0	1119.9	1117.5	1118.7	1115.1	1115.1
15°	1107.9	1105.0	1099.6	1097.8	1094.8	1093.6	1093.6
17.5°	1089.5	1087.1	1082.3	1078.7	1075.2	1074.6	1075.2
20°	1071.6	1069.2	1063.2	1060.9	1057.9	1057.9	1056.7
22.5°	1053.7	1051.3	1046.0	1044.2	1040.0	1040.0	1040.6
25°	1035.2	1033.4	1027.5	1026.3	1025.7	1023.3	1024.5
27.5°	1010.2	1009.0	1004.2	1002.4	1000.1	999.5	1000.7
30°	964.3	962.5	959.0	957.2	953.0	953.6	954.8
32.5°	907.1	904.7	899.9	898.1	894.6	893.4	894.0
35°	835.6	833.8	829.6	829.6	826.0	824.8	826.0
37.5°	762.9	764.6	762.9	764.6	762.9	762.3	762.9
40°	694.3	700.9	702.1	708.6	706.3	709.8	709.2
42.5°	628.8	639.5	643.7	649.0	647.8	650.2	652.0
45°	562.6	571.6	575.7	579.3	579.9	581.1	581.7
47.5°	500.0	507.2	507.8	511.9	511.4	511.4	513.1
50°	441.6	446.4	447.6	450.6	448.2	447.0	447.6
52.5°	387.4	392.2	391.0	392.2	389.2	388.0	388.6
55°	332.0	334.3	334.3	334.3	330.8	330.8	330.8
57.5°	275.3	276.0	274.8	275.3	274.8	271.2	270.6
60°	223.5	223.5	222.9	223.5	221.7	219.9	219.9
62.5°	174.6	175.8	178.2	175.8	174.6	175.8	174.0
65°	130.5	132.9	132.3	133.5	132.9	132.9	131.7
67.5°	98.3	98.9	99.5	100.1	100.1	100.1	100.1
70°	72.1	73.9	73.3	73.3	73.3	73.3	76.9
72.5°	48.3	50.7	50.1	51.2	51.2	52.4	51.2
75°	32.8	35.2	34.0	35.8	35.2	34.0	36.9
77.5°	22.1	23.3	23.8	24.4	23.8	23.3	23.8
80°	15.5	16.7	16.1	16.7	16.7	16.7	17.3
82.5°	9.5	11.3	10.7	11.3	10.7	11.3	11.3
85°	6.5	7.2	6.0	7.2	6.5	6.5	7.8
87.5°	4.2	3.6	3.6	4.2	3.6	4.2	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)