

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: P244958

Luminaire Tested: **LD8B20D010 ER8B20830 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244958
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 ER8B20830 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2091.0 lumens
Efficiency: N/A
Efficacy: 98.2 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

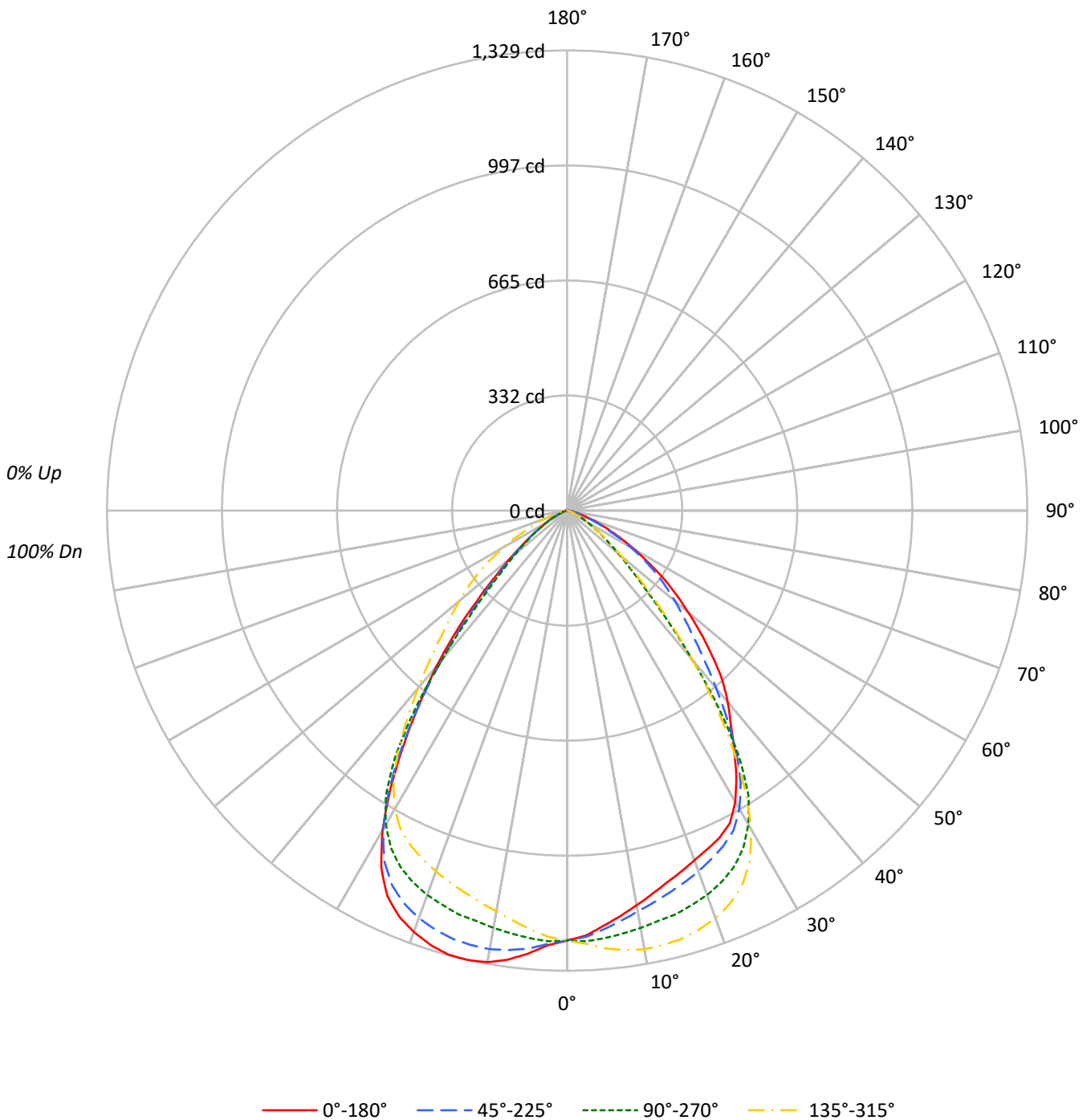
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	38280	38280	38280	38280
5°	37263	38368	39739	38368
10°	36231	38320	41470	38320
15°	35506	38545	42376	38545
20°	35267	38768	42486	38768
25°	35450	38689	41802	38689
30°	34574	37273	37943	37273
35°	31625	32513	30849	32513
40°	29035	22619	23617	22619
45°	25799	13798	15965	13798
50°	21837	9216	10237	9216
55°	18085	6290	6645	6290
60°	13796	4188	4225	4188
65°	9777	2612	2386	2612
70°	7050	1749	1587	1749
75°	4480	870	727	870
80°	3125	639	533	639
85°	2795	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	5.7
10°-20°	342.2	16.4
20°-30°	518.1	24.8
30°-40°	519.3	24.8
40°-50°	326.1	15.6
50°-60°	173.8	8.3
60°-70°	71.5	3.4
70°-80°	18.9	0.9
80°-90°	3.2	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°	978.4	46.8
0°-40°	1497.7	71.6
0°-60°	1997.5	95.5
0°-90°	2091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2091.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1241	1241	1241	1241	1241	
5°	1204	1240	1284	1240	1204	114
15°	1112	1207	1327	1207	1112	315
25°	1042	1137	1229	1137	1042	478
35°	840	864	820	864	840	526
45°	592	316	366	316	592	455
55°	336	117	124	117	336	300
65°	134	36	33	36	134	139
75°	38	7	6	7	38	43
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°	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1228.6	1227.4	1226.8	1228.0	1228.6	1231.1	1230.5	1231.7	1231.7	1232.3	1233.5
5°	1203.8	1203.2	1203.8	1203.8	1206.2	1208.6	1208.0	1209.8	1211.0	1214.1	1215.3
7.5°	1180.8	1180.8	1180.1	1182.6	1183.8	1187.4	1186.8	1189.8	1191.7	1194.7	1198.9
10°	1157.1	1157.1	1157.7	1159.5	1160.2	1165.6	1165.6	1169.8	1172.3	1175.3	1180.8
12.5°	1134.1	1134.1	1137.7	1136.5	1138.9	1143.2	1145.0	1149.2	1152.9	1158.9	1164.4
15°	1112.2	1112.2	1113.5	1116.5	1118.3	1123.8	1126.8	1131.7	1135.9	1142.0	1149.8
17.5°	1093.5	1092.9	1093.5	1097.1	1100.7	1105.6	1108.0	1114.1	1118.3	1126.2	1133.5
20°	1074.7	1075.9	1075.9	1078.9	1081.3	1087.4	1089.8	1096.5	1101.3	1108.6	1117.1
22.5°	1058.3	1057.7	1057.7	1062.0	1063.8	1069.2	1071.6	1077.7	1083.2	1089.2	1097.1
25°	1041.9	1040.7	1043.2	1043.8	1045.0	1051.0	1052.8	1057.1	1062.6	1068.0	1075.9
27.5°	1017.7	1016.5	1017.1	1019.5	1021.3	1026.2	1027.4	1031.6	1035.9	1040.7	1047.4
30°	971.0	969.8	969.2	973.5	975.3	978.9	980.7	988.0	989.2	994.7	999.5
32.5°	909.2	908.6	909.8	913.4	915.3	920.1	922.5	926.8	929.8	932.8	937.7
35°	840.1	838.9	840.1	843.7	843.7	848.0	849.8	851.6	851.0	851.6	850.4
37.5°	775.9	775.2	775.9	777.7	775.9	777.7	775.9	772.2	765.6	758.3	751.0
40°	721.3	721.9	718.3	720.7	714.0	712.8	706.2	697.0	683.7	669.2	648.6
42.5°	663.1	661.3	658.9	660.1	654.6	650.4	639.5	628.0	611.0	586.7	561.9
45°	591.6	591.0	589.8	589.2	585.5	581.3	572.2	558.9	540.1	515.2	485.5
47.5°	521.9	520.1	520.1	520.7	516.4	515.8	508.5	497.0	480.7	456.4	425.5
50°	455.2	454.6	455.8	458.2	455.2	454.0	449.2	441.3	426.7	406.1	377.0
52.5°	395.2	394.6	395.8	398.8	397.6	398.8	394.0	387.9	378.2	358.2	332.8
55°	336.4	336.4	336.4	340.0	340.0	340.0	337.6	334.0	324.9	310.3	286.7
57.5°	275.2	275.8	279.4	280.0	279.4	280.7	280.0	276.4	270.3	260.0	241.9
60°	223.7	223.7	225.5	227.3	226.7	227.3	227.3	225.5	219.4	210.9	196.4
62.5°	177.0	178.8	177.6	178.8	181.2	178.8	177.6	176.4	172.1	166.7	154.6
65°	134.0	135.2	135.2	135.8	134.5	135.2	132.8	130.9	128.5	122.4	114.6
67.5°	101.8	101.8	101.8	101.8	101.2	100.6	100.0	98.2	94.0	91.5	83.0
70°	78.2	74.5	74.5	74.5	74.5	75.2	73.3	70.9	69.7	65.5	59.4
72.5°	52.1	53.3	52.1	52.1	50.9	51.5	49.1	47.9	46.7	44.3	40.6
75°	37.6	34.6	35.8	36.4	34.6	35.8	33.3	30.9	30.9	29.1	27.3
77.5°	24.3	23.7	24.3	24.8	24.3	23.7	22.4	21.2	21.2	20.6	18.8
80°	17.6	17.0	17.0	17.0	16.4	17.0	15.8	15.8	14.5	13.9	12.7
82.5°	11.5	11.5	10.9	11.5	10.9	11.5	9.7	9.7	9.7	9.1	7.9
85°	7.9	6.7	6.7	7.3	6.1	7.3	6.7	6.1	5.5	5.5	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°	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1235.3	1235.9	1235.9	1238.3	1239.5	1240.1	1240.1	1245.0	1243.2	1244.4	1245.6
5°	1217.7	1221.4	1222.6	1222.6	1229.2	1231.7	1234.1	1239.5	1240.1	1243.8	1248.0
7.5°	1200.7	1205.0	1207.4	1212.9	1217.1	1221.4	1228.6	1232.3	1235.9	1240.8	1246.2
10°	1184.4	1189.2	1194.1	1198.3	1205.0	1210.4	1215.3	1223.8	1228.0	1234.7	1242.0
12.5°	1168.6	1175.3	1179.5	1186.8	1194.1	1198.9	1206.2	1214.1	1220.8	1227.4	1235.9
15°	1154.7	1162.6	1167.4	1175.3	1183.2	1189.8	1197.7	1207.4	1212.3	1220.2	1228.0
17.5°	1139.5	1148.0	1154.1	1161.3	1171.1	1178.3	1185.0	1194.7	1200.7	1209.2	1218.3
20°	1123.8	1132.3	1139.5	1146.8	1156.5	1163.8	1171.7	1181.4	1188.0	1196.5	1203.8
22.5°	1105.0	1112.9	1120.7	1129.2	1138.9	1145.0	1154.1	1162.6	1169.8	1177.7	1185.0
25°	1080.7	1090.4	1096.5	1104.4	1112.2	1118.9	1128.6	1137.1	1143.2	1150.4	1157.1
27.5°	1052.2	1059.5	1064.4	1071.0	1078.9	1085.0	1092.2	1100.7	1106.8	1113.5	1118.3
30°	1003.7	1010.4	1014.7	1019.5	1027.4	1032.9	1038.9	1046.8	1051.0	1055.9	1060.1
32.5°	940.1	945.6	948.0	951.6	957.1	962.5	967.4	974.1	975.9	978.9	978.9
35°	848.0	849.2	848.6	849.8	852.2	855.3	859.5	863.7	866.2	866.2	864.4
37.5°	740.1	732.8	724.9	718.9	717.1	715.8	718.3	720.1	722.5	723.7	720.7
40°	628.0	611.6	594.0	578.2	567.3	562.5	560.7	561.9	561.9	566.1	566.1
42.5°	531.6	506.1	480.1	456.4	440.6	428.5	423.1	423.1	423.7	426.7	428.5
45°	451.6	419.4	389.1	363.1	341.3	325.5	318.2	316.4	315.8	317.0	321.2
47.5°	390.4	357.0	325.5	293.4	270.3	254.6	247.9	245.5	243.1	245.5	246.1
50°	342.5	307.9	274.6	242.5	218.2	204.3	195.8	192.1	191.5	191.5	192.8
52.5°	298.8	266.7	233.4	200.6	175.2	161.8	154.0	152.1	149.7	152.1	152.1
55°	257.6	225.5	192.8	161.8	140.6	126.7	119.4	117.0	115.8	117.6	117.6
57.5°	212.8	185.5	155.2	127.3	106.1	96.4	90.9	87.9	87.3	88.5	87.3
60°	174.6	151.5	125.5	100.0	83.7	73.3	69.1	67.9	66.7	67.9	67.9
62.5°	138.2	118.8	97.6	78.2	64.2	57.0	52.1	52.1	51.5	51.5	52.1
65°	102.4	87.3	72.1	55.8	44.9	39.4	35.8	35.8	35.2	35.8	35.2
67.5°	74.5	64.2	52.1	40.6	32.1	29.1	26.7	24.8	26.1	24.8	24.3
70°	54.6	46.1	37.6	30.9	24.8	21.8	20.0	19.4	18.2	18.2	18.2
72.5°	36.4	30.9	25.4	20.0	16.4	13.3	12.7	11.5	10.3	10.9	12.1
75°	24.3	20.6	18.2	14.5	10.9	10.9	7.3	7.3	6.1	7.3	5.5
77.5°	17.0	13.9	10.9	9.1	7.3	6.7	4.8	4.8	4.2	4.2	4.2
80°	12.1	10.3	7.9	6.7	4.8	4.8	4.2	3.6	3.0	3.0	3.6
82.5°	7.3	5.5	5.5	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°	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1248.6	1248.0	1249.2	1249.2	1252.9	1252.3	1254.1	1254.1	1252.9	1253.5	1255.9
5°	1252.9	1254.7	1258.3	1261.4	1266.8	1269.3	1272.3	1275.3	1275.9	1277.7	1279.6
7.5°	1252.9	1258.9	1263.2	1268.6	1275.9	1280.2	1286.8	1292.3	1294.7	1297.7	1301.4
10°	1250.4	1256.5	1264.4	1270.5	1279.6	1286.2	1292.9	1301.4	1305.0	1309.8	1314.7
12.5°	1245.6	1252.3	1260.7	1268.6	1278.9	1285.0	1293.5	1301.4	1306.8	1313.5	1319.0
15°	1238.3	1246.2	1254.1	1262.0	1272.9	1280.2	1288.0	1297.1	1302.6	1309.8	1314.7
17.5°	1226.8	1235.3	1242.6	1249.8	1260.1	1268.6	1275.9	1284.4	1289.9	1295.9	1302.6
20°	1212.9	1220.8	1228.6	1234.7	1245.0	1252.3	1260.1	1268.0	1272.3	1273.5	1283.8
22.5°	1195.3	1200.7	1206.8	1216.5	1222.6	1229.2	1236.5	1243.8	1248.0	1254.7	1258.3
25°	1166.2	1171.7	1178.3	1182.6	1189.8	1195.3	1202.6	1210.4	1212.9	1217.7	1221.4
27.5°	1125.6	1128.6	1131.7	1135.3	1139.5	1142.6	1146.8	1150.4	1152.9	1155.3	1157.7
30°	1061.3	1061.3	1061.3	1058.9	1060.7	1062.6	1063.2	1062.6	1062.6	1062.0	1062.0
32.5°	976.5	971.6	966.2	961.3	959.5	957.1	955.9	954.0	951.0	949.2	949.8
35°	861.9	851.0	844.3	838.3	833.4	829.8	828.0	826.2	825.6	823.1	820.7
37.5°	718.9	711.0	706.2	702.5	698.3	694.6	695.2	695.9	697.6	696.5	697.0
40°	567.3	565.5	567.3	563.1	561.9	563.1	566.1	570.4	572.8	575.2	579.5
42.5°	431.6	434.6	438.9	438.9	440.6	443.1	446.7	453.4	457.0	461.3	466.1
45°	324.9	328.5	334.0	335.8	337.0	340.0	344.3	349.7	352.2	355.8	360.0
47.5°	250.3	252.8	255.8	258.8	261.8	263.1	267.3	267.3	270.3	272.8	274.0
50°	195.2	197.6	200.0	201.8	203.1	204.9	206.1	207.9	208.5	209.7	210.3
52.5°	152.7	155.8	155.8	157.0	158.8	160.6	160.0	160.6	161.2	161.2	163.0
55°	119.4	119.4	121.2	121.2	122.4	121.8	122.4	122.4	122.4	122.4	123.0
57.5°	89.1	89.7	91.5	90.3	89.7	90.9	89.7	90.9	90.3	91.5	89.7
60°	68.5	68.5	69.1	69.1	69.7	69.7	69.7	69.1	69.1	68.5	68.5
62.5°	51.5	52.1	52.7	52.1	52.1	52.1	51.5	51.5	50.9	50.3	50.3
65°	34.6	34.0	35.2	34.0	34.6	34.6	34.0	34.6	32.7	33.3	32.7
67.5°	24.8	24.3	23.7	24.3	23.7	23.0	23.0	23.7	24.3	22.4	22.4
70°	16.4	17.0	16.4	17.0	17.6	17.6	17.0	16.4	17.0	15.8	16.4
72.5°	10.3	10.3	10.3	10.3	10.3	10.9	10.9	10.9	9.7	9.7	9.1
75°	4.8	6.7	5.5	4.8	6.7	6.7	6.1	6.1	5.5	5.5	5.5
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: P244958

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1255.3	1254.7	1255.3	1255.9	1255.3	1254.7	1255.3	1255.9	1253.5	1252.9	1254.1
5°	1282.0	1282.0	1283.2	1283.8	1283.2	1282.0	1282.0	1279.6	1277.7	1275.9	1275.3
7.5°	1305.0	1306.2	1307.4	1308.0	1307.4	1306.2	1305.0	1301.4	1297.7	1294.7	1292.3
10°	1319.0	1320.8	1323.2	1324.4	1323.2	1320.8	1319.0	1314.7	1309.8	1305.0	1301.4
12.5°	1325.0	1326.8	1329.9	1329.3	1329.9	1326.8	1325.0	1319.0	1313.5	1306.8	1301.4
15°	1320.8	1323.2	1326.2	1327.4	1326.2	1323.2	1320.8	1314.7	1309.8	1302.6	1297.1
17.5°	1307.4	1311.1	1312.9	1314.7	1312.9	1311.1	1307.4	1302.6	1295.9	1289.9	1284.4
20°	1289.2	1291.7	1294.1	1294.7	1294.1	1291.7	1289.2	1283.8	1273.5	1272.3	1268.0
22.5°	1263.2	1265.0	1270.5	1268.6	1270.5	1265.0	1263.2	1258.3	1254.7	1248.0	1243.8
25°	1225.6	1227.4	1228.0	1228.6	1228.0	1227.4	1225.6	1221.4	1217.7	1212.9	1210.4
27.5°	1160.8	1160.8	1161.9	1162.6	1161.9	1160.8	1160.8	1157.7	1155.3	1152.9	1150.4
30°	1062.6	1062.6	1062.6	1065.6	1062.6	1062.6	1062.6	1062.0	1062.0	1062.6	1062.6
32.5°	949.2	948.0	946.8	948.0	946.8	948.0	949.2	949.8	949.2	951.0	954.0
35°	820.7	820.1	821.9	819.5	821.9	820.1	820.7	820.7	823.1	825.6	826.2
37.5°	697.6	696.5	698.9	696.5	698.9	696.5	697.6	697.0	696.5	697.6	695.9
40°	580.7	581.9	581.9	586.7	581.9	581.9	580.7	579.5	575.2	572.8	570.4
42.5°	468.5	472.2	471.0	474.6	471.0	472.2	468.5	466.1	461.3	457.0	453.4
45°	362.5	364.9	364.9	366.1	364.9	364.9	362.5	360.0	355.8	352.2	349.7
47.5°	278.2	278.2	278.2	278.8	278.2	278.2	278.2	274.0	272.8	270.3	267.3
50°	211.5	212.1	212.8	213.4	212.8	212.1	211.5	210.3	209.7	208.5	207.9
52.5°	162.4	163.0	161.8	163.0	161.8	163.0	162.4	163.0	161.2	161.2	160.6
55°	123.0	122.4	123.0	123.6	123.0	122.4	123.0	123.0	122.4	122.4	122.4
57.5°	90.3	89.1	89.1	89.1	89.1	89.1	90.3	89.7	91.5	90.3	90.9
60°	67.3	67.9	67.9	68.5	67.9	67.9	67.3	68.5	68.5	69.1	69.1
62.5°	49.7	51.5	50.3	51.5	50.3	51.5	49.7	50.3	50.3	50.9	51.5
65°	32.1	32.1	32.1	32.7	32.1	32.1	32.1	32.7	33.3	32.7	34.6
67.5°	21.8	22.4	23.7	23.0	23.7	22.4	21.8	22.4	22.4	24.3	23.7
70°	17.6	15.8	15.8	17.6	15.8	15.8	17.6	16.4	15.8	17.0	16.4
72.5°	10.3	9.1	10.3	10.3	10.3	9.1	10.3	9.1	9.7	9.7	10.9
75°	5.5	4.8	4.2	6.1	4.2	4.8	5.5	5.5	5.5	5.5	6.1
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: P244958

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1254.1	1252.3	1252.9	1249.2	1249.2	1248.0	1248.6	1245.6	1244.4	1243.2	1245.0
5°	1272.3	1269.3	1266.8	1261.4	1258.3	1254.7	1252.9	1248.0	1243.8	1240.1	1239.5
7.5°	1286.8	1280.2	1275.9	1268.6	1263.2	1258.9	1252.9	1246.2	1240.8	1235.9	1232.3
10°	1292.9	1286.2	1279.6	1270.5	1264.4	1256.5	1250.4	1242.0	1234.7	1228.0	1223.8
12.5°	1293.5	1285.0	1278.9	1268.6	1260.7	1252.3	1245.6	1235.9	1227.4	1220.8	1214.1
15°	1288.0	1280.2	1272.9	1262.0	1254.1	1246.2	1238.3	1228.0	1220.2	1212.3	1207.4
17.5°	1275.9	1268.6	1260.1	1249.8	1242.6	1235.3	1226.8	1218.3	1209.2	1200.7	1194.7
20°	1260.1	1252.3	1245.0	1234.7	1228.6	1220.8	1212.9	1203.8	1196.5	1188.0	1181.4
22.5°	1236.5	1229.2	1222.6	1216.5	1206.8	1200.7	1195.3	1185.0	1177.7	1169.8	1162.6
25°	1202.6	1195.3	1189.8	1182.6	1178.3	1171.7	1166.2	1157.1	1150.4	1143.2	1137.1
27.5°	1146.8	1142.6	1139.5	1135.3	1131.7	1128.6	1125.6	1118.3	1113.5	1106.8	1100.7
30°	1063.2	1062.6	1060.7	1058.9	1061.3	1061.3	1061.3	1060.1	1055.9	1051.0	1046.8
32.5°	955.9	957.1	959.5	961.3	966.2	971.6	976.5	978.9	978.9	975.9	974.1
35°	828.0	829.8	833.4	838.3	844.3	851.0	861.9	864.4	866.2	866.2	863.7
37.5°	695.2	694.6	698.3	702.5	706.2	711.0	718.9	720.7	723.7	722.5	720.1
40°	566.1	563.1	561.9	563.1	567.3	565.5	567.3	566.1	566.1	561.9	561.9
42.5°	446.7	443.1	440.6	438.9	438.9	434.6	431.6	428.5	426.7	423.7	423.1
45°	344.3	340.0	337.0	335.8	334.0	328.5	324.9	321.2	317.0	315.8	316.4
47.5°	267.3	263.1	261.8	258.8	255.8	252.8	250.3	246.1	245.5	243.1	245.5
50°	206.1	204.9	203.1	201.8	200.0	197.6	195.2	192.8	191.5	191.5	192.1
52.5°	160.0	160.6	158.8	157.0	155.8	155.8	152.7	152.1	152.1	149.7	152.1
55°	122.4	121.8	122.4	121.2	121.2	119.4	119.4	117.6	117.6	115.8	117.0
57.5°	89.7	90.9	89.7	90.3	91.5	89.7	89.1	87.3	88.5	87.3	87.9
60°	69.7	69.7	69.7	69.1	69.1	68.5	68.5	67.9	67.9	66.7	67.9
62.5°	51.5	52.1	52.1	52.1	52.7	52.1	51.5	52.1	51.5	51.5	52.1
65°	34.0	34.6	34.6	34.0	35.2	34.0	34.6	35.2	35.8	35.2	35.8
67.5°	23.0	23.0	23.7	24.3	23.7	24.3	24.8	24.3	24.8	26.1	24.8
70°	17.0	17.6	17.6	17.0	16.4	17.0	16.4	18.2	18.2	18.2	19.4
72.5°	10.9	10.9	10.3	10.3	10.3	10.3	10.3	12.1	10.9	10.3	11.5
75°	6.1	6.7	6.7	4.8	5.5	6.7	4.8	5.5	7.3	6.1	7.3
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: P244958

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1240.1	1240.1	1239.5	1238.3	1235.9	1235.9	1235.3	1233.5	1232.3	1231.7	1231.7
5°	1234.1	1231.7	1229.2	1222.6	1222.6	1221.4	1217.7	1215.3	1214.1	1211.0	1209.8
7.5°	1228.6	1221.4	1217.1	1212.9	1207.4	1205.0	1200.7	1198.9	1194.7	1191.7	1189.8
10°	1215.3	1210.4	1205.0	1198.3	1194.1	1189.2	1184.4	1180.8	1175.3	1172.3	1169.8
12.5°	1206.2	1198.9	1194.1	1186.8	1179.5	1175.3	1168.6	1164.4	1158.9	1152.9	1149.2
15°	1197.7	1189.8	1183.2	1175.3	1167.4	1162.6	1154.7	1149.8	1142.0	1135.9	1131.7
17.5°	1185.0	1178.3	1171.1	1161.3	1154.1	1148.0	1139.5	1133.5	1126.2	1118.3	1114.1
20°	1171.7	1163.8	1156.5	1146.8	1139.5	1132.3	1123.8	1117.1	1108.6	1101.3	1096.5
22.5°	1154.1	1145.0	1138.9	1129.2	1120.7	1112.9	1105.0	1097.1	1089.2	1083.2	1077.7
25°	1128.6	1118.9	1112.2	1104.4	1096.5	1090.4	1080.7	1075.9	1068.0	1062.6	1057.1
27.5°	1092.2	1085.0	1078.9	1071.0	1064.4	1059.5	1052.2	1047.4	1040.7	1035.9	1031.6
30°	1038.9	1032.9	1027.4	1019.5	1014.7	1010.4	1003.7	999.5	994.7	989.2	988.0
32.5°	967.4	962.5	957.1	951.6	948.0	945.6	940.1	937.7	932.8	929.8	926.8
35°	859.5	855.3	852.2	849.8	848.6	849.2	848.0	850.4	851.6	851.0	851.6
37.5°	718.3	715.8	717.1	718.9	724.9	732.8	740.1	751.0	758.3	765.6	772.2
40°	560.7	562.5	567.3	578.2	594.0	611.6	628.0	648.6	669.2	683.7	697.0
42.5°	423.1	428.5	440.6	456.4	480.1	506.1	531.6	561.9	586.7	611.0	628.0
45°	318.2	325.5	341.3	363.1	389.1	419.4	451.6	485.5	515.2	540.1	558.9
47.5°	247.9	254.6	270.3	293.4	325.5	357.0	390.4	425.5	456.4	480.7	497.0
50°	195.8	204.3	218.2	242.5	274.6	307.9	342.5	377.0	406.1	426.7	441.3
52.5°	154.0	161.8	175.2	200.6	233.4	266.7	298.8	332.8	358.2	378.2	387.9
55°	119.4	126.7	140.6	161.8	192.8	225.5	257.6	286.7	310.3	324.9	334.0
57.5°	90.9	96.4	106.1	127.3	155.2	185.5	212.8	241.9	260.0	270.3	276.4
60°	69.1	73.3	83.7	100.0	125.5	151.5	174.6	196.4	210.9	219.4	225.5
62.5°	52.1	57.0	64.2	78.2	97.6	118.8	138.2	154.6	166.7	172.1	176.4
65°	35.8	39.4	44.9	55.8	72.1	87.3	102.4	114.6	122.4	128.5	130.9
67.5°	26.7	29.1	32.1	40.6	52.1	64.2	74.5	83.0	91.5	94.0	98.2
70°	20.0	21.8	24.8	30.9	37.6	46.1	54.6	59.4	65.5	69.7	70.9
72.5°	12.7	13.3	16.4	20.0	25.4	30.9	36.4	40.6	44.3	46.7	47.9
75°	7.3	10.9	10.9	14.5	18.2	20.6	24.3	27.3	29.1	30.9	30.9
77.5°	4.8	6.7	7.3	9.1	10.9	13.9	17.0	18.8	20.6	21.2	21.2
80°	4.2	4.8	4.8	6.7	7.9	10.3	12.1	12.7	13.9	14.5	15.8
82.5°	1.8	2.4	3.0	4.8	5.5	5.5	7.3	7.9	9.1	9.7	9.7
85°	0.6	1.2	1.2	1.8	3.0	3.6	4.2	4.8	5.5	5.5	6.1
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: P244958

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4	1241.4
2.5°	1230.5	1231.1	1228.6	1228.0	1226.8	1227.4	1228.6
5°	1208.0	1208.6	1206.2	1203.8	1203.8	1203.2	1203.8
7.5°	1186.8	1187.4	1183.8	1182.6	1180.1	1180.8	1180.8
10°	1165.6	1165.6	1160.2	1159.5	1157.7	1157.1	1157.1
12.5°	1145.0	1143.2	1138.9	1136.5	1137.7	1134.1	1134.1
15°	1126.8	1123.8	1118.3	1116.5	1113.5	1112.2	1112.2
17.5°	1108.0	1105.6	1100.7	1097.1	1093.5	1092.9	1093.5
20°	1089.8	1087.4	1081.3	1078.9	1075.9	1075.9	1074.7
22.5°	1071.6	1069.2	1063.8	1062.0	1057.7	1057.7	1058.3
25°	1052.8	1051.0	1045.0	1043.8	1043.2	1040.7	1041.9
27.5°	1027.4	1026.2	1021.3	1019.5	1017.1	1016.5	1017.7
30°	980.7	978.9	975.3	973.5	969.2	969.8	971.0
32.5°	922.5	920.1	915.3	913.4	909.8	908.6	909.2
35°	849.8	848.0	843.7	843.7	840.1	838.9	840.1
37.5°	775.9	777.7	775.9	777.7	775.9	775.2	775.9
40°	706.2	712.8	714.0	720.7	718.3	721.9	721.3
42.5°	639.5	650.4	654.6	660.1	658.9	661.3	663.1
45°	572.2	581.3	585.5	589.2	589.8	591.0	591.6
47.5°	508.5	515.8	516.4	520.7	520.1	520.1	521.9
50°	449.2	454.0	455.2	458.2	455.8	454.6	455.2
52.5°	394.0	398.8	397.6	398.8	395.8	394.6	395.2
55°	337.6	340.0	340.0	340.0	336.4	336.4	336.4
57.5°	280.0	280.7	279.4	280.0	279.4	275.8	275.2
60°	227.3	227.3	226.7	227.3	225.5	223.7	223.7
62.5°	177.6	178.8	181.2	178.8	177.6	178.8	177.0
65°	132.8	135.2	134.5	135.8	135.2	135.2	134.0
67.5°	100.0	100.6	101.2	101.8	101.8	101.8	101.8
70°	73.3	75.2	74.5	74.5	74.5	74.5	78.2
72.5°	49.1	51.5	50.9	52.1	52.1	53.3	52.1
75°	33.3	35.8	34.6	36.4	35.8	34.6	37.6
77.5°	22.4	23.7	24.3	24.8	24.3	23.7	24.3
80°	15.8	17.0	16.4	17.0	17.0	17.0	17.6
82.5°	9.7	11.5	10.9	11.5	10.9	11.5	11.5
85°	6.7	7.3	6.1	7.3	6.7	6.7	7.9
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)