

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: P244970

Luminaire Tested: **LD8B20D010 ER8B20840 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244970  
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 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2160.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 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

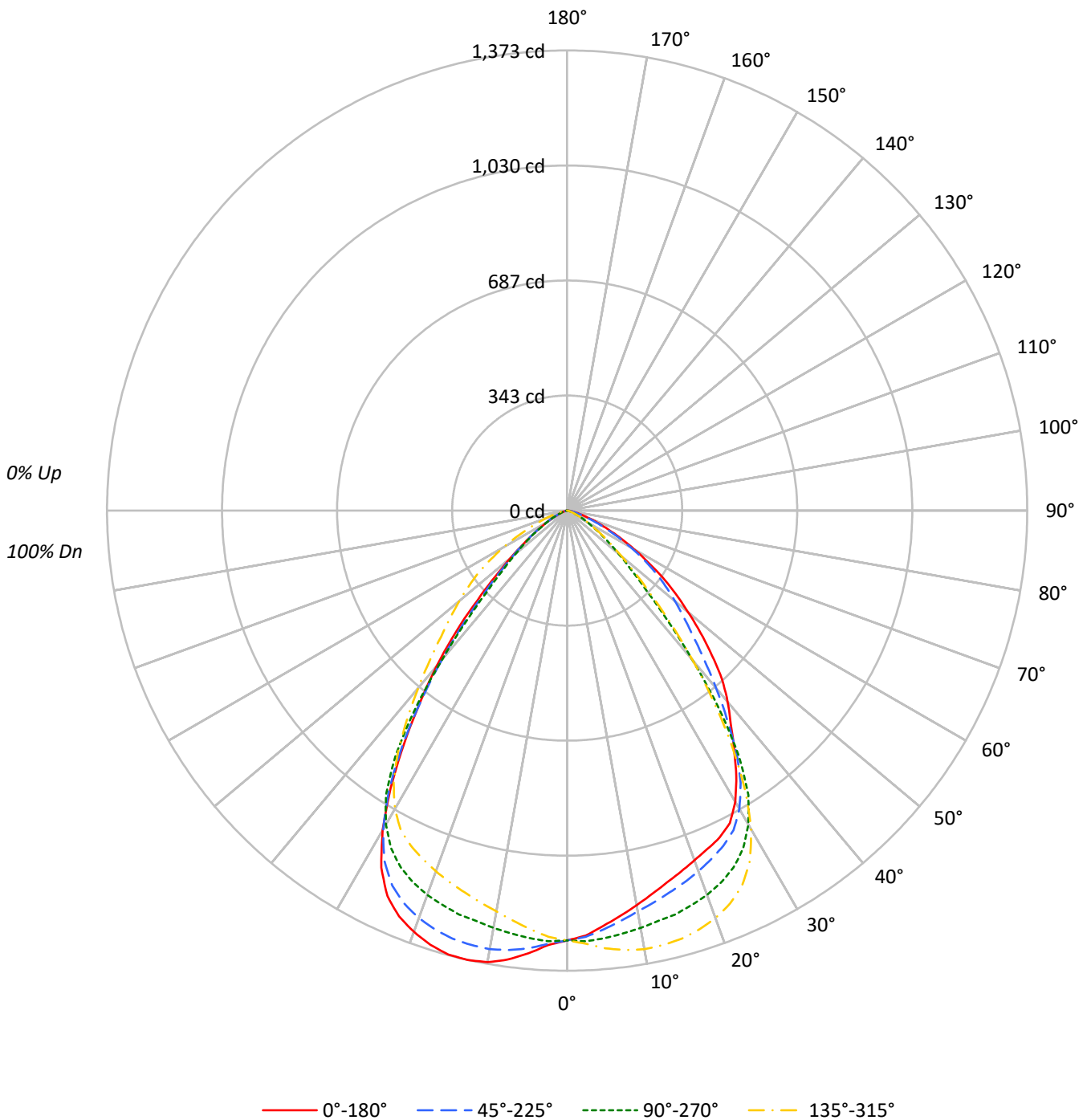
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	39541	39541	39541	39541
5°	38491	39634	41051	39634
10°	37427	39585	42838	39585
15°	36681	39819	43774	39819
20°	36428	40045	43887	40045
25°	36620	39965	43183	39965
30°	35717	38502	39196	38502
35°	32668	33586	31866	33586
40°	29993	23363	24398	23363
45°	26650	14251	16493	14251
50°	22557	9523	10573	9523
55°	18682	6494	6865	6494
60°	14246	4323	4360	4323
65°	10098	2692	2466	2692
70°	7285	1803	1641	1803
75°	4623	894	751	894
80°	3232	675	550	675
85°	2866	0	212	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.1	5.7
10°-20°	353.4	16.4
20°-30°	535.2	24.8
30°-40°	536.4	24.8
40°-50°	336.8	15.6
50°-60°	179.5	8.3
60°-70°	73.8	3.4
70°-80°	19.5	0.9
80°-90°	3.3	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°	1010.7	46.8
0°-40°	1547.1	71.6
0°-60°	2063.4	95.5
0°-90°	2160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2160.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1282	1282	1282	1282	1282	
5°	1244	1280	1326	1280	1244	117
15°	1149	1247	1371	1247	1149	325
25°	1076	1175	1269	1175	1076	494
35°	868	892	846	892	868	544
45°	611	327	378	327	611	470
55°	348	121	128	121	348	310
65°	138	37	34	37	138	144
75°	39	8	6	8	39	44
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°	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3
2.5°	1269.2	1267.9	1267.3	1268.6	1269.2	1271.7	1271.1	1272.3	1272.3	1272.9	1274.2
5°	1243.5	1242.9	1243.5	1243.5	1246.0	1248.5	1247.9	1249.8	1251.0	1254.2	1255.4
7.5°	1219.7	1219.7	1219.1	1221.6	1222.8	1226.6	1226.0	1229.1	1231.0	1234.1	1238.5
10°	1195.3	1195.3	1195.9	1197.8	1198.4	1204.1	1204.1	1208.4	1210.9	1214.1	1219.7
12.5°	1171.5	1171.5	1175.3	1174.0	1176.5	1180.9	1182.8	1187.1	1190.9	1197.2	1202.8
15°	1149.0	1149.0	1150.2	1153.3	1155.2	1160.9	1164.0	1169.0	1173.4	1179.6	1187.8
17.5°	1129.5	1128.9	1129.5	1133.3	1137.1	1142.1	1144.6	1150.8	1155.2	1163.4	1170.9
20°	1110.1	1111.4	1111.4	1114.5	1117.0	1123.3	1125.8	1132.7	1137.7	1145.2	1154.0
22.5°	1093.2	1092.6	1092.6	1097.0	1098.9	1104.5	1107.0	1113.3	1118.9	1125.2	1133.3
25°	1076.3	1075.1	1077.6	1078.2	1079.4	1085.7	1087.6	1092.0	1097.6	1103.3	1111.4
27.5°	1051.3	1050.0	1050.7	1053.2	1055.0	1060.0	1061.3	1065.7	1070.1	1075.1	1082.0
30°	1003.1	1001.8	1001.2	1005.6	1007.5	1011.2	1013.1	1020.6	1021.8	1027.5	1032.5
32.5°	939.2	938.6	939.8	943.6	945.5	950.5	953.0	957.4	960.5	963.6	968.6
35°	867.8	866.6	867.8	871.6	871.6	876.0	877.9	879.7	879.1	879.7	878.5
37.5°	801.5	800.8	801.5	803.3	801.5	803.3	801.5	797.7	790.8	783.3	775.8
40°	745.1	745.7	742.0	744.5	737.6	736.3	729.5	720.1	706.3	691.3	670.0
42.5°	685.0	683.1	680.6	681.9	676.2	671.8	660.6	648.7	631.1	606.1	580.4
45°	611.1	610.5	609.2	608.6	604.8	600.5	591.1	577.3	557.9	532.2	501.5
47.5°	539.1	537.2	537.2	537.8	533.5	532.8	525.3	513.4	496.5	471.5	439.5
50°	470.2	469.6	470.9	473.4	470.2	469.0	464.0	455.8	440.8	419.5	389.4
52.5°	408.2	407.6	408.9	412.0	410.7	412.0	407.0	400.7	390.7	370.0	343.8
55°	347.5	347.5	347.5	351.2	351.2	351.2	348.7	345.0	335.6	320.6	296.2
57.5°	284.3	284.9	288.6	289.3	288.6	289.9	289.3	285.5	279.3	268.6	249.8
60°	231.0	231.0	232.9	234.8	234.2	234.8	234.8	232.9	226.7	217.9	202.9
62.5°	182.8	184.7	183.4	184.7	187.2	184.7	183.4	182.2	177.8	172.2	159.7
65°	138.4	139.6	139.6	140.3	139.0	139.6	137.1	135.3	132.8	126.5	118.3
67.5°	105.2	105.2	105.2	105.2	104.6	103.9	103.3	101.4	97.1	94.6	85.8
70°	80.8	77.0	77.0	77.0	77.0	77.7	75.8	73.3	72.0	67.6	61.4
72.5°	53.8	55.1	53.8	53.8	52.6	53.2	50.7	49.5	48.2	45.7	42.0
75°	38.8	35.7	36.9	37.6	35.7	36.9	34.4	31.9	31.9	30.1	28.2
77.5°	25.1	24.4	25.1	25.7	25.1	24.4	23.2	21.9	21.9	21.3	19.4
80°	18.2	17.5	17.5	17.5	16.9	17.5	16.3	16.3	15.0	14.4	13.1
82.5°	11.9	11.9	11.3	11.9	11.3	11.9	10.0	10.0	10.0	9.4	8.1
85°	8.1	6.9	6.9	7.5	6.3	7.5	6.9	6.3	5.6	5.6	5.0
87.5°	3.8	4.4	3.8	4.4	3.8	3.8	4.4	3.8	3.8	2.5	2.5
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: P244970

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3
2.5°	1276.1	1276.7	1276.7	1279.2	1280.4	1281.1	1281.1	1286.1	1284.2	1285.5	1286.7
5°	1257.9	1261.7	1262.9	1262.9	1269.8	1272.3	1274.8	1280.4	1281.1	1284.8	1289.2
7.5°	1240.4	1244.7	1247.3	1252.9	1257.3	1261.7	1269.2	1272.9	1276.7	1281.7	1287.3
10°	1223.5	1228.5	1233.5	1237.9	1244.7	1250.4	1255.4	1264.2	1268.6	1275.4	1282.9
12.5°	1207.2	1214.1	1218.5	1226.0	1233.5	1238.5	1246.0	1254.2	1261.0	1267.9	1276.7
15°	1192.8	1200.9	1205.9	1214.1	1222.2	1229.1	1237.2	1247.3	1252.3	1260.4	1268.6
17.5°	1177.1	1185.9	1192.2	1199.7	1209.7	1217.2	1224.1	1234.1	1240.4	1249.1	1258.5
20°	1160.9	1169.6	1177.1	1184.6	1194.7	1202.2	1210.3	1220.3	1227.2	1236.0	1243.5
22.5°	1141.5	1149.6	1157.7	1166.5	1176.5	1182.8	1192.2	1200.9	1208.4	1216.6	1224.1
25°	1116.4	1126.4	1132.7	1140.8	1149.0	1155.8	1165.9	1174.6	1180.9	1188.4	1195.3
27.5°	1087.0	1094.5	1099.5	1106.4	1114.5	1120.8	1128.3	1137.1	1143.3	1150.2	1155.2
30°	1036.9	1043.8	1048.2	1053.2	1061.3	1066.9	1073.2	1081.3	1085.7	1090.7	1095.1
32.5°	971.1	976.8	979.3	983.0	988.7	994.3	999.3	1006.2	1008.1	1011.2	1011.2
35°	876.0	877.2	876.6	877.9	880.4	883.5	887.9	892.2	894.7	894.7	892.9
37.5°	764.5	757.0	748.9	742.6	740.7	739.5	742.0	743.8	746.4	747.6	744.5
40°	648.7	631.8	613.6	597.3	586.1	581.1	579.2	580.4	580.4	584.8	584.8
42.5°	549.1	522.8	495.9	471.5	455.2	442.7	437.0	437.0	437.7	440.8	442.7
45°	466.5	433.3	402.0	375.1	352.5	336.2	328.7	326.8	326.2	327.5	331.8
47.5°	403.2	368.8	336.2	303.1	279.3	263.0	256.1	253.6	251.1	253.6	254.2
50°	353.8	318.1	283.6	250.5	225.4	211.0	202.2	198.5	197.9	197.9	199.1
52.5°	308.7	275.5	241.1	207.3	180.9	167.2	159.0	157.2	154.7	157.2	157.2
55°	266.1	232.9	199.1	167.2	145.3	130.9	123.3	120.8	119.6	121.5	121.5
57.5°	219.8	191.6	160.3	131.5	109.6	99.6	93.9	90.8	90.2	91.4	90.2
60°	180.3	156.5	129.6	103.3	86.4	75.8	71.4	70.1	68.9	70.1	70.1
62.5°	142.8	122.7	100.8	80.8	66.4	58.9	53.8	53.8	53.2	53.2	53.8
65°	105.8	90.2	74.5	57.6	46.3	40.7	36.9	36.9	36.3	36.9	36.3
67.5°	77.0	66.4	53.8	42.0	33.2	30.1	27.6	25.7	26.9	25.7	25.1
70°	56.4	47.6	38.8	31.9	25.7	22.6	20.7	20.0	18.8	18.8	18.8
72.5°	37.6	31.9	26.3	20.7	16.9	13.8	13.1	11.9	10.6	11.3	12.5
75°	25.1	21.3	18.8	15.0	11.3	11.3	7.5	7.5	6.3	7.5	5.6
77.5°	17.5	14.4	11.3	9.4	7.5	6.9	5.0	5.0	4.4	4.4	4.4
80°	12.5	10.6	8.1	6.9	5.0	5.0	4.4	3.8	3.1	3.1	3.8
82.5°	7.5	5.6	5.6	5.0	3.1	2.5	1.9	2.5	1.3	1.3	1.3
85°	4.4	3.8	3.1	1.9	1.3	1.3	0.6	0.0	0.6	0.6	0.0
87.5°	2.5	1.3	1.3	0.6	0.0	0.6	0.6	0.0	0.0	0.0	1.3
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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CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3
2.5°	1289.8	1289.2	1290.5	1290.5	1294.2	1293.6	1295.5	1295.5	1294.2	1294.8	1297.3
5°	1294.2	1296.1	1299.8	1303.0	1308.6	1311.1	1314.3	1317.4	1318.0	1319.9	1321.8
7.5°	1294.2	1300.5	1304.9	1310.5	1318.0	1322.4	1329.3	1334.9	1337.4	1340.5	1344.3
10°	1291.7	1298.0	1306.1	1312.4	1321.8	1328.7	1335.5	1344.3	1348.1	1353.1	1358.1
12.5°	1286.7	1293.6	1302.3	1310.5	1321.1	1327.4	1336.2	1344.3	1349.9	1356.8	1362.5
15°	1279.2	1287.3	1295.5	1303.6	1314.9	1322.4	1330.5	1339.9	1345.6	1353.1	1358.1
17.5°	1267.3	1276.1	1283.6	1291.1	1301.7	1310.5	1318.0	1326.8	1332.4	1338.7	1345.6
20°	1252.9	1261.0	1269.2	1275.4	1286.1	1293.6	1301.7	1309.9	1314.3	1315.5	1326.2
22.5°	1234.7	1240.4	1246.6	1256.7	1262.9	1269.8	1277.3	1284.8	1289.2	1296.1	1299.8
25°	1204.7	1210.3	1217.2	1221.6	1229.1	1234.7	1242.2	1250.4	1252.9	1257.9	1261.7
27.5°	1162.7	1165.9	1169.0	1172.7	1177.1	1180.3	1184.6	1188.4	1190.9	1193.4	1195.9
30°	1096.4	1096.4	1096.4	1093.9	1095.7	1097.6	1098.2	1097.6	1097.6	1097.0	1097.0
32.5°	1008.7	1003.7	998.1	993.1	991.2	988.7	987.4	985.5	982.4	980.5	981.1
35°	890.4	879.1	872.2	865.9	860.9	857.2	855.3	853.4	852.8	850.3	847.8
37.5°	742.6	734.5	729.5	725.7	721.3	717.6	718.2	718.8	720.7	719.4	720.1
40°	586.1	584.2	586.1	581.7	580.4	581.7	584.8	589.2	591.7	594.2	598.6
42.5°	445.8	448.9	453.3	453.3	455.2	457.7	461.5	468.4	472.1	476.5	481.5
45°	335.6	339.4	345.0	346.9	348.1	351.2	355.7	361.3	363.8	367.5	371.9
47.5°	258.6	261.1	264.2	267.4	270.5	271.7	276.1	276.1	279.3	281.8	283.0
50°	201.6	204.1	206.6	208.5	209.8	211.6	212.9	214.8	215.4	216.6	217.3
52.5°	157.8	160.9	160.9	162.2	164.0	165.9	165.3	165.9	166.5	166.5	168.4
55°	123.3	123.3	125.2	125.2	126.5	125.8	126.5	126.5	126.5	126.5	127.1
57.5°	92.0	92.7	94.6	93.3	92.7	93.9	92.7	93.9	93.3	94.6	92.7
60°	70.7	70.7	71.4	71.4	72.0	72.0	72.0	71.4	71.4	70.7	70.7
62.5°	53.2	53.8	54.5	53.8	53.8	53.8	53.2	53.2	52.6	52.0	52.0
65°	35.7	35.1	36.3	35.1	35.7	35.7	35.1	35.7	33.8	34.4	33.8
67.5°	25.7	25.1	24.4	25.1	24.4	23.8	23.8	24.4	25.1	23.2	23.2
70°	16.9	17.5	16.9	17.5	18.2	18.2	17.5	16.9	17.5	16.3	16.9
72.5°	10.6	10.6	10.6	10.6	10.6	11.3	11.3	11.3	10.0	10.0	9.4
75°	5.0	6.9	5.6	5.0	6.9	6.9	6.3	6.3	5.6	5.6	5.6
77.5°	5.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.1	3.8	3.1
80°	2.5	2.5	2.5	1.9	2.5	2.5	3.1	2.5	2.5	1.9	3.1
82.5°	1.3	1.3	1.3	0.0	0.6	1.3	1.3	0.6	1.3	1.3	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: P244970

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3
2.5°	1296.7	1296.1	1296.7	1297.3	1296.7	1296.1	1296.7	1297.3	1294.8	1294.2	1295.5
5°	1324.3	1324.3	1325.5	1326.2	1325.5	1324.3	1324.3	1321.8	1319.9	1318.0	1317.4
7.5°	1348.1	1349.3	1350.6	1351.2	1350.6	1349.3	1348.1	1344.3	1340.5	1337.4	1334.9
10°	1362.5	1364.4	1366.9	1368.1	1366.9	1364.4	1362.5	1358.1	1353.1	1348.1	1344.3
12.5°	1368.7	1370.6	1373.7	1373.1	1373.7	1370.6	1368.7	1362.5	1356.8	1349.9	1344.3
15°	1364.4	1366.9	1370.0	1371.2	1370.0	1366.9	1364.4	1358.1	1353.1	1345.6	1339.9
17.5°	1350.6	1354.3	1356.2	1358.1	1356.2	1354.3	1350.6	1345.6	1338.7	1332.4	1326.8
20°	1331.8	1334.3	1336.8	1337.4	1336.8	1334.3	1331.8	1326.2	1315.5	1314.3	1309.9
22.5°	1304.9	1306.8	1312.4	1310.5	1312.4	1306.8	1304.9	1299.8	1296.1	1289.2	1284.8
25°	1266.0	1267.9	1268.6	1269.2	1268.6	1267.9	1266.0	1261.7	1257.9	1252.9	1250.4
27.5°	1199.1	1199.1	1200.3	1200.9	1200.3	1199.1	1199.1	1195.9	1193.4	1190.9	1188.4
30°	1097.6	1097.6	1097.6	1100.8	1097.6	1097.6	1097.6	1097.0	1097.0	1097.6	1097.6
32.5°	980.5	979.3	978.0	979.3	978.0	979.3	980.5	981.1	980.5	982.4	985.5
35°	847.8	847.2	849.0	846.5	849.0	847.2	847.8	847.8	850.3	852.8	853.4
37.5°	720.7	719.4	721.9	719.4	721.9	719.4	720.7	720.1	719.4	720.7	718.8
40°	599.8	601.1	601.1	606.1	601.1	601.1	599.8	598.6	594.2	591.7	589.2
42.5°	484.0	487.8	486.5	490.3	486.5	487.8	484.0	481.5	476.5	472.1	468.4
45°	374.4	376.9	376.9	378.2	376.9	376.9	374.4	371.9	367.5	363.8	361.3
47.5°	287.4	287.4	287.4	288.0	287.4	287.4	287.4	283.0	281.8	279.3	276.1
50°	218.5	219.1	219.8	220.4	219.8	219.1	218.5	217.3	216.6	215.4	214.8
52.5°	167.8	168.4	167.2	168.4	167.2	168.4	167.8	168.4	166.5	166.5	165.9
55°	127.1	126.5	127.1	127.7	127.1	126.5	127.1	127.1	126.5	126.5	126.5
57.5°	93.3	92.0	92.0	92.0	92.0	92.0	93.3	92.7	94.6	93.3	93.9
60°	69.5	70.1	70.1	70.7	70.1	70.1	69.5	70.7	70.7	71.4	71.4
62.5°	51.3	53.2	52.0	53.2	52.0	53.2	51.3	52.0	52.0	52.6	53.2
65°	33.2	33.2	33.2	33.8	33.2	33.2	33.2	33.8	34.4	33.8	35.7
67.5°	22.6	23.2	24.4	23.8	24.4	23.2	22.6	23.2	23.2	25.1	24.4
70°	18.2	16.3	16.3	18.2	16.3	16.3	18.2	16.9	16.3	17.5	16.9
72.5°	10.6	9.4	10.6	10.6	10.6	9.4	10.6	9.4	10.0	10.0	11.3
75°	5.6	5.0	4.4	6.3	4.4	5.0	5.6	5.6	5.6	5.6	6.3
77.5°	3.8	3.1	4.4	4.4	4.4	3.1	3.8	3.1	3.8	3.1	3.8
80°	1.9	2.5	1.9	3.1	1.9	2.5	1.9	3.1	1.9	2.5	2.5
82.5°	0.6	1.3	1.3	1.3	1.3	1.3	0.6	0.6	1.3	1.3	0.6
85°	0.0	1.3	0.6	0.6	0.6	1.3	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: P244970

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3
2.5°	1295.5	1293.6	1294.2	1290.5	1290.5	1289.2	1289.8	1286.7	1285.5	1284.2	1286.1
5°	1314.3	1311.1	1308.6	1303.0	1299.8	1296.1	1294.2	1289.2	1284.8	1281.1	1280.4
7.5°	1329.3	1322.4	1318.0	1310.5	1304.9	1300.5	1294.2	1287.3	1281.7	1276.7	1272.9
10°	1335.5	1328.7	1321.8	1312.4	1306.1	1298.0	1291.7	1282.9	1275.4	1268.6	1264.2
12.5°	1336.2	1327.4	1321.1	1310.5	1302.3	1293.6	1286.7	1276.7	1267.9	1261.0	1254.2
15°	1330.5	1322.4	1314.9	1303.6	1295.5	1287.3	1279.2	1268.6	1260.4	1252.3	1247.3
17.5°	1318.0	1310.5	1301.7	1291.1	1283.6	1276.1	1267.3	1258.5	1249.1	1240.4	1234.1
20°	1301.7	1293.6	1286.1	1275.4	1269.2	1261.0	1252.9	1243.5	1236.0	1227.2	1220.3
22.5°	1277.3	1269.8	1262.9	1256.7	1246.6	1240.4	1234.7	1224.1	1216.6	1208.4	1200.9
25°	1242.2	1234.7	1229.1	1221.6	1217.2	1210.3	1204.7	1195.3	1188.4	1180.9	1174.6
27.5°	1184.6	1180.3	1177.1	1172.7	1169.0	1165.9	1162.7	1155.2	1150.2	1143.3	1137.1
30°	1098.2	1097.6	1095.7	1093.9	1096.4	1096.4	1096.4	1095.1	1090.7	1085.7	1081.3
32.5°	987.4	988.7	991.2	993.1	998.1	1003.7	1008.7	1011.2	1011.2	1008.1	1006.2
35°	855.3	857.2	860.9	865.9	872.2	879.1	890.4	892.9	894.7	894.7	892.2
37.5°	718.2	717.6	721.3	725.7	729.5	734.5	742.6	744.5	747.6	746.4	743.8
40°	584.8	581.7	580.4	581.7	586.1	584.2	586.1	584.8	584.8	580.4	580.4
42.5°	461.5	457.7	455.2	453.3	453.3	448.9	445.8	442.7	440.8	437.7	437.0
45°	355.7	351.2	348.1	346.9	345.0	339.4	335.6	331.8	327.5	326.2	326.8
47.5°	276.1	271.7	270.5	267.4	264.2	261.1	258.6	254.2	253.6	251.1	253.6
50°	212.9	211.6	209.8	208.5	206.6	204.1	201.6	199.1	197.9	197.9	198.5
52.5°	165.3	165.9	164.0	162.2	160.9	160.9	157.8	157.2	157.2	154.7	157.2
55°	126.5	125.8	126.5	125.2	125.2	123.3	123.3	121.5	121.5	119.6	120.8
57.5°	92.7	93.9	92.7	93.3	94.6	92.7	92.0	90.2	91.4	90.2	90.8
60°	72.0	72.0	72.0	71.4	71.4	70.7	70.7	70.1	70.1	68.9	70.1
62.5°	53.2	53.8	53.8	53.8	54.5	53.8	53.2	53.8	53.2	53.2	53.8
65°	35.1	35.7	35.7	35.1	36.3	35.1	35.7	36.3	36.9	36.3	36.9
67.5°	23.8	23.8	24.4	25.1	24.4	25.1	25.7	25.1	25.7	26.9	25.7
70°	17.5	18.2	18.2	17.5	16.9	17.5	16.9	18.8	18.8	18.8	20.0
72.5°	11.3	11.3	10.6	10.6	10.6	10.6	10.6	12.5	11.3	10.6	11.9
75°	6.3	6.9	6.9	5.0	5.6	6.9	5.0	5.6	7.5	6.3	7.5
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	5.0	4.4	4.4	4.4	5.0
80°	3.1	2.5	2.5	1.9	2.5	2.5	2.5	3.8	3.1	3.1	3.8
82.5°	1.3	1.3	0.6	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.5
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	1.3	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: P244970

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3
2.5°	1281.1	1281.1	1280.4	1279.2	1276.7	1276.7	1276.1	1274.2	1272.9	1272.3	1272.3
5°	1274.8	1272.3	1269.8	1262.9	1262.9	1261.7	1257.9	1255.4	1254.2	1251.0	1249.8
7.5°	1269.2	1261.7	1257.3	1252.9	1247.3	1244.7	1240.4	1238.5	1234.1	1231.0	1229.1
10°	1255.4	1250.4	1244.7	1237.9	1233.5	1228.5	1223.5	1219.7	1214.1	1210.9	1208.4
12.5°	1246.0	1238.5	1233.5	1226.0	1218.5	1214.1	1207.2	1202.8	1197.2	1190.9	1187.1
15°	1237.2	1229.1	1222.2	1214.1	1205.9	1200.9	1192.8	1187.8	1179.6	1173.4	1169.0
17.5°	1224.1	1217.2	1209.7	1199.7	1192.2	1185.9	1177.1	1170.9	1163.4	1155.2	1150.8
20°	1210.3	1202.2	1194.7	1184.6	1177.1	1169.6	1160.9	1154.0	1145.2	1137.7	1132.7
22.5°	1192.2	1182.8	1176.5	1166.5	1157.7	1149.6	1141.5	1133.3	1125.2	1118.9	1113.3
25°	1165.9	1155.8	1149.0	1140.8	1132.7	1126.4	1116.4	1111.4	1103.3	1097.6	1092.0
27.5°	1128.3	1120.8	1114.5	1106.4	1099.5	1094.5	1087.0	1082.0	1075.1	1070.1	1065.7
30°	1073.2	1066.9	1061.3	1053.2	1048.2	1043.8	1036.9	1032.5	1027.5	1021.8	1020.6
32.5°	999.3	994.3	988.7	983.0	979.3	976.8	971.1	968.6	963.6	960.5	957.4
35°	887.9	883.5	880.4	877.9	876.6	877.2	876.0	878.5	879.7	879.1	879.7
37.5°	742.0	739.5	740.7	742.6	748.9	757.0	764.5	775.8	783.3	790.8	797.7
40°	579.2	581.1	586.1	597.3	613.6	631.8	648.7	670.0	691.3	706.3	720.1
42.5°	437.0	442.7	455.2	471.5	495.9	522.8	549.1	580.4	606.1	631.1	648.7
45°	328.7	336.2	352.5	375.1	402.0	433.3	466.5	501.5	532.2	557.9	577.3
47.5°	256.1	263.0	279.3	303.1	336.2	368.8	403.2	439.5	471.5	496.5	513.4
50°	202.2	211.0	225.4	250.5	283.6	318.1	353.8	389.4	419.5	440.8	455.8
52.5°	159.0	167.2	180.9	207.3	241.1	275.5	308.7	343.8	370.0	390.7	400.7
55°	123.3	130.9	145.3	167.2	199.1	232.9	266.1	296.2	320.6	335.6	345.0
57.5°	93.9	99.6	109.6	131.5	160.3	191.6	219.8	249.8	268.6	279.3	285.5
60°	71.4	75.8	86.4	103.3	129.6	156.5	180.3	202.9	217.9	226.7	232.9
62.5°	53.8	58.9	66.4	80.8	100.8	122.7	142.8	159.7	172.2	177.8	182.2
65°	36.9	40.7	46.3	57.6	74.5	90.2	105.8	118.3	126.5	132.8	135.3
67.5°	27.6	30.1	33.2	42.0	53.8	66.4	77.0	85.8	94.6	97.1	101.4
70°	20.7	22.6	25.7	31.9	38.8	47.6	56.4	61.4	67.6	72.0	73.3
72.5°	13.1	13.8	16.9	20.7	26.3	31.9	37.6	42.0	45.7	48.2	49.5
75°	7.5	11.3	11.3	15.0	18.8	21.3	25.1	28.2	30.1	31.9	31.9
77.5°	5.0	6.9	7.5	9.4	11.3	14.4	17.5	19.4	21.3	21.9	21.9
80°	4.4	5.0	5.0	6.9	8.1	10.6	12.5	13.1	14.4	15.0	16.3
82.5°	1.9	2.5	3.1	5.0	5.6	5.6	7.5	8.1	9.4	10.0	10.0
85°	0.6	1.3	1.3	1.9	3.1	3.8	4.4	5.0	5.6	5.6	6.3
87.5°	0.6	0.6	0.0	0.6	1.3	1.3	2.5	2.5	2.5	3.8	3.8
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: P244970

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3
2.5°	1271.1	1271.7	1269.2	1268.6	1267.3	1267.9	1269.2
5°	1247.9	1248.5	1246.0	1243.5	1243.5	1242.9	1243.5
7.5°	1226.0	1226.6	1222.8	1221.6	1219.1	1219.7	1219.7
10°	1204.1	1204.1	1198.4	1197.8	1195.9	1195.3	1195.3
12.5°	1182.8	1180.9	1176.5	1174.0	1175.3	1171.5	1171.5
15°	1164.0	1160.9	1155.2	1153.3	1150.2	1149.0	1149.0
17.5°	1144.6	1142.1	1137.1	1133.3	1129.5	1128.9	1129.5
20°	1125.8	1123.3	1117.0	1114.5	1111.4	1111.4	1110.1
22.5°	1107.0	1104.5	1098.9	1097.0	1092.6	1092.6	1093.2
25°	1087.6	1085.7	1079.4	1078.2	1077.6	1075.1	1076.3
27.5°	1061.3	1060.0	1055.0	1053.2	1050.7	1050.0	1051.3
30°	1013.1	1011.2	1007.5	1005.6	1001.2	1001.8	1003.1
32.5°	953.0	950.5	945.5	943.6	939.8	938.6	939.2
35°	877.9	876.0	871.6	871.6	867.8	866.6	867.8
37.5°	801.5	803.3	801.5	803.3	801.5	800.8	801.5
40°	729.5	736.3	737.6	744.5	742.0	745.7	745.1
42.5°	660.6	671.8	676.2	681.9	680.6	683.1	685.0
45°	591.1	600.5	604.8	608.6	609.2	610.5	611.1
47.5°	525.3	532.8	533.5	537.8	537.2	537.2	539.1
50°	464.0	469.0	470.2	473.4	470.9	469.6	470.2
52.5°	407.0	412.0	410.7	412.0	408.9	407.6	408.2
55°	348.7	351.2	351.2	351.2	347.5	347.5	347.5
57.5°	289.3	289.9	288.6	289.3	288.6	284.9	284.3
60°	234.8	234.8	234.2	234.8	232.9	231.0	231.0
62.5°	183.4	184.7	187.2	184.7	183.4	184.7	182.8
65°	137.1	139.6	139.0	140.3	139.6	139.6	138.4
67.5°	103.3	103.9	104.6	105.2	105.2	105.2	105.2
70°	75.8	77.7	77.0	77.0	77.0	77.0	80.8
72.5°	50.7	53.2	52.6	53.8	53.8	55.1	53.8
75°	34.4	36.9	35.7	37.6	36.9	35.7	38.8
77.5°	23.2	24.4	25.1	25.7	25.1	24.4	25.1
80°	16.3	17.5	16.9	17.5	17.5	17.5	18.2
82.5°	10.0	11.9	11.3	11.9	11.3	11.9	11.9
85°	6.9	7.5	6.3	7.5	6.9	6.9	8.1
87.5°	4.4	3.8	3.8	4.4	3.8	4.4	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)