

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: P245877

Luminaire Tested: **LD8B30D010 ER8B309727 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245877
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: LD8B30D010 ER8B309727 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1993.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

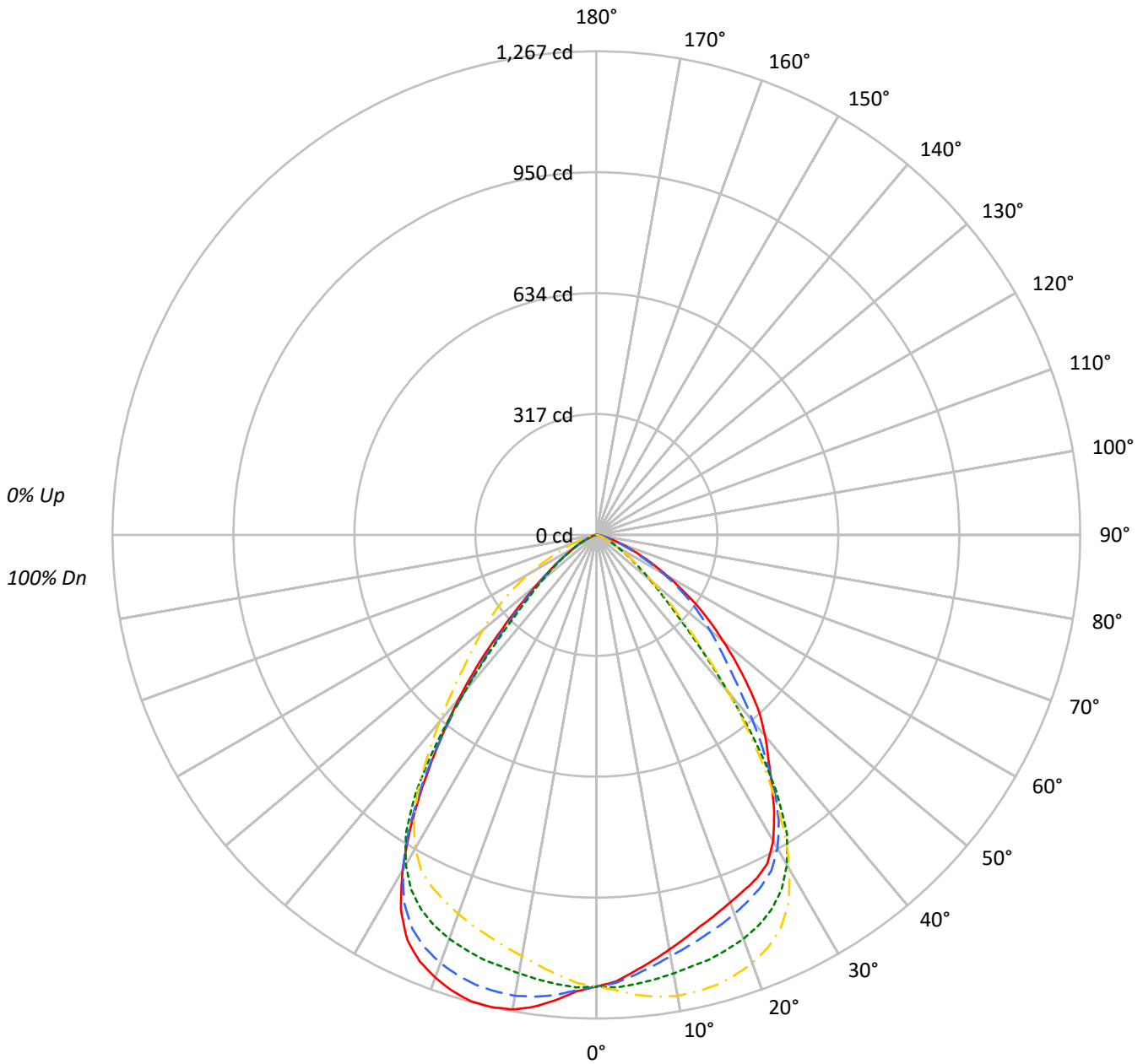
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	5.7
10°-20°	326.1	16.4
20°-30°	493.8	24.8
30°-40°	494.9	24.8
40°-50°	310.8	15.6
50°-60°	165.6	8.3
60°-70°	68.1	3.4
70°-80°	18.0	0.9
80°-90°	3.0	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°	932.5	46.8
0°-40°	1427.5	71.6
0°-60°	1903.9	95.5
0°-90°	1993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1993.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1183	1183	1183	1183	1183	
5°	1147	1181	1224	1181	1147	108
15°	1060	1151	1265	1151	1060	300
25°	993	1084	1171	1084	993	455
35°	801	823	781	823	801	502
45°	564	302	349	302	564	434
55°	321	112	118	112	321	286
65°	128	34	31	34	128	132
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°	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2
2.5°	1171.1	1169.9	1169.3	1170.5	1171.1	1173.4	1172.8	1173.9	1173.9	1174.5	1175.7
5°	1147.4	1146.8	1147.4	1147.4	1149.7	1152.0	1151.4	1153.1	1154.3	1157.2	1158.3
7.5°	1125.4	1125.4	1124.8	1127.1	1128.3	1131.8	1131.2	1134.1	1135.8	1138.7	1142.7
10°	1102.9	1102.9	1103.4	1105.2	1105.8	1111.0	1111.0	1115.0	1117.3	1120.2	1125.4
12.5°	1080.9	1080.9	1084.4	1083.2	1085.5	1089.6	1091.3	1095.4	1098.8	1104.6	1109.8
15°	1060.1	1060.1	1061.3	1064.2	1065.9	1071.1	1074.0	1078.6	1082.7	1088.4	1096.0
17.5°	1042.2	1041.6	1042.2	1045.7	1049.2	1053.8	1056.1	1061.9	1065.9	1073.4	1080.4
20°	1024.3	1025.5	1025.5	1028.4	1030.7	1036.4	1038.7	1045.1	1049.7	1056.6	1064.8
22.5°	1008.7	1008.1	1008.1	1012.2	1013.9	1019.1	1021.4	1027.2	1032.4	1038.2	1045.7
25°	993.1	991.9	994.3	994.8	996.0	1001.8	1003.5	1007.5	1012.8	1018.0	1025.5
27.5°	970.0	968.9	969.4	971.7	973.5	978.1	979.2	983.3	987.3	991.9	998.3
30°	925.5	924.4	923.8	927.8	929.6	933.0	934.8	941.7	942.8	948.0	952.7
32.5°	866.6	866.0	867.2	870.6	872.4	877.0	879.3	883.3	886.2	889.1	893.7
35°	800.7	799.6	800.7	804.2	804.2	808.2	810.0	811.7	811.1	811.7	810.6
37.5°	739.5	738.9	739.5	741.2	739.5	741.2	739.5	736.0	729.7	722.7	715.8
40°	687.5	688.1	684.6	686.9	680.6	679.4	673.1	664.4	651.7	637.8	618.2
42.5°	632.0	630.3	628.0	629.1	624.0	619.9	609.5	598.5	582.3	559.3	535.5
45°	563.9	563.3	562.1	561.6	558.1	554.0	545.4	532.7	514.8	491.1	462.8
47.5°	497.4	495.7	495.7	496.3	492.2	491.6	484.7	473.7	458.1	435.0	405.6
50°	433.9	433.3	434.5	436.8	433.9	432.7	428.1	420.6	406.7	387.1	359.3
52.5°	376.7	376.1	377.3	380.1	379.0	380.1	375.5	369.8	360.5	341.4	317.2
55°	320.6	320.6	320.6	324.1	324.1	324.1	321.8	318.3	309.7	295.8	273.3
57.5°	262.3	262.9	266.3	266.9	266.3	267.5	266.9	263.4	257.7	247.9	230.5
60°	213.2	213.2	214.9	216.7	216.1	216.7	216.7	214.9	209.1	201.1	187.2
62.5°	168.7	170.4	169.3	170.4	172.7	170.4	169.3	168.1	164.1	158.9	147.3
65°	127.7	128.8	128.8	129.4	128.2	128.8	126.5	124.8	122.5	116.7	109.2
67.5°	97.1	97.1	97.1	97.1	96.5	95.9	95.3	93.6	89.6	87.2	79.1
70°	74.5	71.1	71.1	71.1	71.1	71.6	69.9	67.6	66.4	62.4	56.6
72.5°	49.7	50.8	49.7	49.7	48.5	49.1	46.8	45.6	44.5	42.2	38.7
75°	35.8	32.9	34.1	34.7	32.9	34.1	31.8	29.5	29.5	27.7	26.0
77.5°	23.1	22.5	23.1	23.7	23.1	22.5	21.4	20.2	20.2	19.6	17.9
80°	16.8	16.2	16.2	16.2	15.6	16.2	15.0	15.0	13.9	13.3	12.1
82.5°	11.0	11.0	10.4	11.0	10.4	11.0	9.3	9.3	9.3	8.7	7.5
85°	7.5	6.3	6.3	6.9	5.8	6.9	6.3	5.8	5.2	5.2	4.6
87.5°	3.5	4.0	3.5	4.0	3.5	3.5	4.0	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°	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2
2.5°	1177.4	1178.0	1178.0	1180.3	1181.4	1182.0	1182.0	1186.7	1184.9	1186.1	1187.2
5°	1160.7	1164.1	1165.3	1165.3	1171.6	1173.9	1176.2	1181.4	1182.0	1185.5	1189.5
7.5°	1144.5	1148.5	1150.8	1156.0	1160.1	1164.1	1171.1	1174.5	1178.0	1182.6	1187.8
10°	1128.9	1133.5	1138.1	1142.2	1148.5	1153.7	1158.3	1166.4	1170.5	1176.8	1183.8
12.5°	1113.9	1120.2	1124.3	1131.2	1138.1	1142.7	1149.7	1157.2	1163.5	1169.9	1178.0
15°	1100.6	1108.1	1112.7	1120.2	1127.7	1134.1	1141.6	1150.8	1155.5	1163.0	1170.5
17.5°	1086.1	1094.2	1100.0	1106.9	1116.2	1123.1	1129.5	1138.7	1144.5	1152.6	1161.2
20°	1071.1	1079.2	1086.1	1093.1	1102.3	1109.2	1116.7	1126.0	1132.3	1140.4	1147.4
22.5°	1053.2	1060.7	1068.2	1076.3	1085.5	1091.3	1100.0	1108.1	1115.0	1122.5	1129.5
25°	1030.1	1039.3	1045.1	1052.6	1060.1	1066.5	1075.7	1083.8	1089.6	1096.5	1102.9
27.5°	1002.9	1009.9	1014.5	1020.8	1028.4	1034.1	1041.0	1049.2	1054.9	1061.3	1065.9
30°	956.7	963.1	967.1	971.7	979.2	984.5	990.2	997.7	1001.8	1006.4	1010.4
32.5°	896.0	901.2	903.6	907.0	912.2	917.4	922.1	928.4	930.1	933.0	933.0
35°	808.2	809.4	808.8	810.0	812.3	815.2	819.2	823.3	825.6	825.6	823.8
37.5°	705.4	698.5	691.0	685.2	683.5	682.3	684.6	686.3	688.7	689.8	686.9
40°	598.5	582.9	566.2	551.1	540.7	536.1	534.4	535.5	535.5	539.6	539.6
42.5°	506.7	482.4	457.6	435.0	420.0	408.5	403.3	403.3	403.8	406.7	408.5
45°	430.4	399.8	370.9	346.1	325.3	310.2	303.3	301.6	301.0	302.1	306.2
47.5°	372.1	340.3	310.2	279.6	257.7	242.6	236.3	234.0	231.7	234.0	234.6
50°	326.4	293.5	261.7	231.1	208.0	194.7	186.6	183.1	182.6	182.6	183.7
52.5°	284.8	254.2	222.4	191.2	167.0	154.3	146.7	145.0	142.7	145.0	145.0
55°	245.5	214.9	183.7	154.3	134.0	120.8	113.8	111.5	110.3	112.1	112.1
57.5°	202.8	176.8	147.9	121.3	101.1	91.9	86.7	83.8	83.2	84.3	83.2
60°	166.4	144.4	119.6	95.3	79.7	69.9	65.9	64.7	63.5	64.7	64.7
62.5°	131.7	113.2	93.0	74.5	61.2	54.3	49.7	49.7	49.1	49.1	49.7
65°	97.6	83.2	68.7	53.1	42.8	37.5	34.1	34.1	33.5	34.1	33.5
67.5°	71.1	61.2	49.7	38.7	30.6	27.7	25.4	23.7	24.8	23.7	23.1
70°	52.0	43.9	35.8	29.5	23.7	20.8	19.1	18.5	17.3	17.3	17.3
72.5°	34.7	29.5	24.3	19.1	15.6	12.7	12.1	11.0	9.8	10.4	11.6
75°	23.1	19.6	17.3	13.9	10.4	10.4	6.9	6.9	5.8	6.9	5.2
77.5°	16.2	13.3	10.4	8.7	6.9	6.3	4.6	4.6	4.0	4.0	4.0
80°	11.6	9.8	7.5	6.3	4.6	4.6	4.0	3.5	2.9	2.9	3.5
82.5°	6.9	5.2	5.2	4.6	2.9	2.3	1.7	2.3	1.2	1.2	1.2
85°	4.0	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°	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2
2.5°	1190.1	1189.5	1190.7	1190.7	1194.2	1193.6	1195.3	1195.3	1194.2	1194.7	1197.0
5°	1194.2	1195.9	1199.4	1202.3	1207.4	1209.8	1212.6	1215.5	1216.1	1217.9	1219.6
7.5°	1194.2	1199.9	1204.0	1209.2	1216.1	1220.2	1226.5	1231.7	1234.0	1236.9	1240.4
10°	1191.8	1197.6	1205.1	1210.9	1219.6	1225.9	1232.3	1240.4	1243.8	1248.5	1253.1
12.5°	1187.2	1193.6	1201.7	1209.2	1219.0	1224.8	1232.9	1240.4	1245.6	1251.9	1257.1
15°	1180.3	1187.8	1195.3	1202.8	1213.2	1220.2	1227.7	1236.3	1241.5	1248.5	1253.1
17.5°	1169.3	1177.4	1184.3	1191.3	1201.1	1209.2	1216.1	1224.2	1229.4	1235.2	1241.5
20°	1156.0	1163.5	1171.1	1176.8	1186.7	1193.6	1201.1	1208.6	1212.6	1213.8	1223.6
22.5°	1139.3	1144.5	1150.2	1159.5	1165.3	1171.6	1178.6	1185.5	1189.5	1195.9	1199.4
25°	1111.5	1116.7	1123.1	1127.1	1134.1	1139.3	1146.2	1153.7	1156.0	1160.7	1164.1
27.5°	1072.8	1075.7	1078.6	1082.1	1086.1	1089.0	1093.1	1096.5	1098.8	1101.1	1103.4
30°	1011.6	1011.6	1011.6	1009.3	1011.0	1012.8	1013.3	1012.8	1012.8	1012.2	1012.2
32.5°	930.7	926.1	920.9	916.3	914.5	912.2	911.1	909.3	906.5	904.7	905.3
35°	821.5	811.1	804.8	799.0	794.4	790.9	789.2	787.4	786.9	784.6	782.2
37.5°	685.2	677.7	673.1	669.6	665.5	662.1	662.6	663.2	665.0	663.8	664.4
40°	540.7	539.0	540.7	536.7	535.5	536.7	539.6	543.7	546.0	548.3	552.3
42.5°	411.3	414.2	418.3	418.3	420.0	422.3	425.8	432.1	435.6	439.6	444.3
45°	309.7	313.1	318.3	320.1	321.2	324.1	328.2	333.3	335.6	339.1	343.2
47.5°	238.6	240.9	243.8	246.7	249.6	250.7	254.8	254.8	257.7	260.0	261.1
50°	186.0	188.3	190.6	192.4	193.5	195.3	196.4	198.2	198.7	199.9	200.5
52.5°	145.6	148.5	148.5	149.6	151.4	153.1	152.5	153.1	153.7	153.7	155.4
55°	113.8	113.8	115.5	115.5	116.7	116.1	116.7	116.7	116.7	116.7	117.3
57.5°	84.9	85.5	87.2	86.1	85.5	86.7	85.5	86.7	86.1	87.2	85.5
60°	65.3	65.3	65.9	65.9	66.4	66.4	66.4	65.9	65.9	65.3	65.3
62.5°	49.1	49.7	50.3	49.7	49.7	49.7	49.1	49.1	48.5	47.9	47.9
65°	32.9	32.4	33.5	32.4	32.9	32.9	32.4	32.9	31.2	31.8	31.2
67.5°	23.7	23.1	22.5	23.1	22.5	21.9	21.9	22.5	23.1	21.4	21.4
70°	15.6	16.2	15.6	16.2	16.8	16.8	16.2	15.6	16.2	15.0	15.6
72.5°	9.8	9.8	9.8	9.8	9.8	10.4	10.4	10.4	9.3	9.3	8.7
75°	4.6	6.3	5.2	4.6	6.3	6.3	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



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CATALOG NUMBER: LD8B30D010 ER8B309727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2
2.5°	1196.5	1195.9	1196.5	1197.0	1196.5	1195.9	1196.5	1197.0	1194.7	1194.2	1195.3
5°	1221.9	1221.9	1223.0	1223.6	1223.0	1221.9	1221.9	1219.6	1217.9	1216.1	1215.5
7.5°	1243.8	1245.0	1246.1	1246.7	1246.1	1245.0	1243.8	1240.4	1236.9	1234.0	1231.7
10°	1257.1	1258.9	1261.2	1262.3	1261.2	1258.9	1257.1	1253.1	1248.5	1243.8	1240.4
12.5°	1262.9	1264.7	1267.5	1267.0	1267.5	1264.7	1262.9	1257.1	1251.9	1245.6	1240.4
15°	1258.9	1261.2	1264.1	1265.2	1264.1	1261.2	1258.9	1253.1	1248.5	1241.5	1236.3
17.5°	1246.1	1249.6	1251.4	1253.1	1251.4	1249.6	1246.1	1241.5	1235.2	1229.4	1224.2
20°	1228.8	1231.1	1233.5	1234.0	1233.5	1231.1	1228.8	1223.6	1213.8	1212.6	1208.6
22.5°	1204.0	1205.7	1210.9	1209.2	1210.9	1205.7	1204.0	1199.4	1195.9	1189.5	1185.5
25°	1168.2	1169.9	1170.5	1171.1	1170.5	1169.9	1168.2	1164.1	1160.7	1156.0	1153.7
27.5°	1106.3	1106.3	1107.5	1108.1	1107.5	1106.3	1106.3	1103.4	1101.1	1098.8	1096.5
30°	1012.8	1012.8	1012.8	1015.7	1012.8	1012.8	1012.8	1012.2	1012.2	1012.8	1012.8
32.5°	904.7	903.6	902.4	903.6	902.4	903.6	904.7	905.3	904.7	906.5	909.3
35°	782.2	781.7	783.4	781.1	783.4	781.7	782.2	782.2	784.6	786.9	787.4
37.5°	665.0	663.8	666.1	663.8	666.1	663.8	665.0	664.4	663.8	665.0	663.2
40°	553.5	554.6	554.6	559.3	554.6	554.6	553.5	552.3	548.3	546.0	543.7
42.5°	446.6	450.1	448.9	452.4	448.9	450.1	446.6	444.3	439.6	435.6	432.1
45°	345.5	347.8	347.8	348.9	347.8	347.8	345.5	343.2	339.1	335.6	333.3
47.5°	265.2	265.2	265.2	265.8	265.2	265.2	265.2	261.1	260.0	257.7	254.8
50°	201.6	202.2	202.8	203.4	202.8	202.2	201.6	200.5	199.9	198.7	198.2
52.5°	154.8	155.4	154.3	155.4	154.3	155.4	154.8	155.4	153.7	153.7	153.1
55°	117.3	116.7	117.3	117.9	117.3	116.7	117.3	117.3	116.7	116.7	116.7
57.5°	86.1	84.9	84.9	84.9	84.9	84.9	86.1	85.5	87.2	86.1	86.7
60°	64.1	64.7	64.7	65.3	64.7	64.7	64.1	65.3	65.3	65.9	65.9
62.5°	47.4	49.1	47.9	49.1	47.9	49.1	47.4	47.9	47.9	48.5	49.1
65°	30.6	30.6	30.6	31.2	30.6	30.6	30.6	31.2	31.8	31.2	32.9
67.5°	20.8	21.4	22.5	21.9	22.5	21.4	20.8	21.4	21.4	23.1	22.5
70°	16.8	15.0	15.0	16.8	15.0	15.0	16.8	15.6	15.0	16.2	15.6
72.5°	9.8	8.7	9.8	9.8	9.8	8.7	9.8	8.7	9.3	9.3	10.4
75°	5.2	4.6	4.0	5.8	4.0	4.6	5.2	5.2	5.2	5.2	5.8
77.5°	3.5	2.9	4.0	4.0	4.0	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: P245877

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2
2.5°	1195.3	1193.6	1194.2	1190.7	1190.7	1189.5	1190.1	1187.2	1186.1	1184.9	1186.7
5°	1212.6	1209.8	1207.4	1202.3	1199.4	1195.9	1194.2	1189.5	1185.5	1182.0	1181.4
7.5°	1226.5	1220.2	1216.1	1209.2	1204.0	1199.9	1194.2	1187.8	1182.6	1178.0	1174.5
10°	1232.3	1225.9	1219.6	1210.9	1205.1	1197.6	1191.8	1183.8	1176.8	1170.5	1166.4
12.5°	1232.9	1224.8	1219.0	1209.2	1201.7	1193.6	1187.2	1178.0	1169.9	1163.5	1157.2
15°	1227.7	1220.2	1213.2	1202.8	1195.3	1187.8	1180.3	1170.5	1163.0	1155.5	1150.8
17.5°	1216.1	1209.2	1201.1	1191.3	1184.3	1177.4	1169.3	1161.2	1152.6	1144.5	1138.7
20°	1201.1	1193.6	1186.7	1176.8	1171.1	1163.5	1156.0	1147.4	1140.4	1132.3	1126.0
22.5°	1178.6	1171.6	1165.3	1159.5	1150.2	1144.5	1139.3	1129.5	1122.5	1115.0	1108.1
25°	1146.2	1139.3	1134.1	1127.1	1123.1	1116.7	1111.5	1102.9	1096.5	1089.6	1083.8
27.5°	1093.1	1089.0	1086.1	1082.1	1078.6	1075.7	1072.8	1065.9	1061.3	1054.9	1049.2
30°	1013.3	1012.8	1011.0	1009.3	1011.6	1011.6	1011.6	1010.4	1006.4	1001.8	997.7
32.5°	911.1	912.2	914.5	916.3	920.9	926.1	930.7	933.0	933.0	930.1	928.4
35°	789.2	790.9	794.4	799.0	804.8	811.1	821.5	823.8	825.6	825.6	823.3
37.5°	662.6	662.1	665.5	669.6	673.1	677.7	685.2	686.9	689.8	688.7	686.3
40°	539.6	536.7	535.5	536.7	540.7	539.0	540.7	539.6	539.6	535.5	535.5
42.5°	425.8	422.3	420.0	418.3	418.3	414.2	411.3	408.5	406.7	403.8	403.3
45°	328.2	324.1	321.2	320.1	318.3	313.1	309.7	306.2	302.1	301.0	301.6
47.5°	254.8	250.7	249.6	246.7	243.8	240.9	238.6	234.6	234.0	231.7	234.0
50°	196.4	195.3	193.5	192.4	190.6	188.3	186.0	183.7	182.6	182.6	183.1
52.5°	152.5	153.1	151.4	149.6	148.5	148.5	145.6	145.0	145.0	142.7	145.0
55°	116.7	116.1	116.7	115.5	115.5	113.8	113.8	112.1	112.1	110.3	111.5
57.5°	85.5	86.7	85.5	86.1	87.2	85.5	84.9	83.2	84.3	83.2	83.8
60°	66.4	66.4	66.4	65.9	65.9	65.3	65.3	64.7	64.7	63.5	64.7
62.5°	49.1	49.7	49.7	49.7	50.3	49.7	49.1	49.7	49.1	49.1	49.7
65°	32.4	32.9	32.9	32.4	33.5	32.4	32.9	33.5	34.1	33.5	34.1
67.5°	21.9	21.9	22.5	23.1	22.5	23.1	23.7	23.1	23.7	24.8	23.7
70°	16.2	16.8	16.8	16.2	15.6	16.2	15.6	17.3	17.3	17.3	18.5
72.5°	10.4	10.4	9.8	9.8	9.8	9.8	9.8	11.6	10.4	9.8	11.0
75°	5.8	6.3	6.3	4.6	5.2	6.3	4.6	5.2	6.9	5.8	6.9
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.6	4.0	4.0	4.0	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: P245877

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2
2.5°	1182.0	1182.0	1181.4	1180.3	1178.0	1178.0	1177.4	1175.7	1174.5	1173.9	1173.9
5°	1176.2	1173.9	1171.6	1165.3	1165.3	1164.1	1160.7	1158.3	1157.2	1154.3	1153.1
7.5°	1171.1	1164.1	1160.1	1156.0	1150.8	1148.5	1144.5	1142.7	1138.7	1135.8	1134.1
10°	1158.3	1153.7	1148.5	1142.2	1138.1	1133.5	1128.9	1125.4	1120.2	1117.3	1115.0
12.5°	1149.7	1142.7	1138.1	1131.2	1124.3	1120.2	1113.9	1109.8	1104.6	1098.8	1095.4
15°	1141.6	1134.1	1127.7	1120.2	1112.7	1108.1	1100.6	1096.0	1088.4	1082.7	1078.6
17.5°	1129.5	1123.1	1116.2	1106.9	1100.0	1094.2	1086.1	1080.4	1073.4	1065.9	1061.9
20°	1116.7	1109.2	1102.3	1093.1	1086.1	1079.2	1071.1	1064.8	1056.6	1049.7	1045.1
22.5°	1100.0	1091.3	1085.5	1076.3	1068.2	1060.7	1053.2	1045.7	1038.2	1032.4	1027.2
25°	1075.7	1066.5	1060.1	1052.6	1045.1	1039.3	1030.1	1025.5	1018.0	1012.8	1007.5
27.5°	1041.0	1034.1	1028.4	1020.8	1014.5	1009.9	1002.9	998.3	991.9	987.3	983.3
30°	990.2	984.5	979.2	971.7	967.1	963.1	956.7	952.7	948.0	942.8	941.7
32.5°	922.1	917.4	912.2	907.0	903.6	901.2	896.0	893.7	889.1	886.2	883.3
35°	819.2	815.2	812.3	810.0	808.8	809.4	808.2	810.6	811.7	811.1	811.7
37.5°	684.6	682.3	683.5	685.2	691.0	698.5	705.4	715.8	722.7	729.7	736.0
40°	534.4	536.1	540.7	551.1	566.2	582.9	598.5	618.2	637.8	651.7	664.4
42.5°	403.3	408.5	420.0	435.0	457.6	482.4	506.7	535.5	559.3	582.3	598.5
45°	303.3	310.2	325.3	346.1	370.9	399.8	430.4	462.8	491.1	514.8	532.7
47.5°	236.3	242.6	257.7	279.6	310.2	340.3	372.1	405.6	435.0	458.1	473.7
50°	186.6	194.7	208.0	231.1	261.7	293.5	326.4	359.3	387.1	406.7	420.6
52.5°	146.7	154.3	167.0	191.2	222.4	254.2	284.8	317.2	341.4	360.5	369.8
55°	113.8	120.8	134.0	154.3	183.7	214.9	245.5	273.3	295.8	309.7	318.3
57.5°	86.7	91.9	101.1	121.3	147.9	176.8	202.8	230.5	247.9	257.7	263.4
60°	65.9	69.9	79.7	95.3	119.6	144.4	166.4	187.2	201.1	209.1	214.9
62.5°	49.7	54.3	61.2	74.5	93.0	113.2	131.7	147.3	158.9	164.1	168.1
65°	34.1	37.5	42.8	53.1	68.7	83.2	97.6	109.2	116.7	122.5	124.8
67.5°	25.4	27.7	30.6	38.7	49.7	61.2	71.1	79.1	87.2	89.6	93.6
70°	19.1	20.8	23.7	29.5	35.8	43.9	52.0	56.6	62.4	66.4	67.6
72.5°	12.1	12.7	15.6	19.1	24.3	29.5	34.7	38.7	42.2	44.5	45.6
75°	6.9	10.4	10.4	13.9	17.3	19.6	23.1	26.0	27.7	29.5	29.5
77.5°	4.6	6.3	6.9	8.7	10.4	13.3	16.2	17.9	19.6	20.2	20.2
80°	4.0	4.6	4.6	6.3	7.5	9.8	11.6	12.1	13.3	13.9	15.0
82.5°	1.7	2.3	2.9	4.6	5.2	5.2	6.9	7.5	8.7	9.3	9.3
85°	0.6	1.2	1.2	1.7	2.9	3.5	4.0	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: P245877

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2	1183.2
2.5°	1172.8	1173.4	1171.1	1170.5	1169.3	1169.9	1171.1
5°	1151.4	1152.0	1149.7	1147.4	1147.4	1146.8	1147.4
7.5°	1131.2	1131.8	1128.3	1127.1	1124.8	1125.4	1125.4
10°	1111.0	1111.0	1105.8	1105.2	1103.4	1102.9	1102.9
12.5°	1091.3	1089.6	1085.5	1083.2	1084.4	1080.9	1080.9
15°	1074.0	1071.1	1065.9	1064.2	1061.3	1060.1	1060.1
17.5°	1056.1	1053.8	1049.2	1045.7	1042.2	1041.6	1042.2
20°	1038.7	1036.4	1030.7	1028.4	1025.5	1025.5	1024.3
22.5°	1021.4	1019.1	1013.9	1012.2	1008.1	1008.1	1008.7
25°	1003.5	1001.8	996.0	994.8	994.3	991.9	993.1
27.5°	979.2	978.1	973.5	971.7	969.4	968.9	970.0
30°	934.8	933.0	929.6	927.8	923.8	924.4	925.5
32.5°	879.3	877.0	872.4	870.6	867.2	866.0	866.6
35°	810.0	808.2	804.2	804.2	800.7	799.6	800.7
37.5°	739.5	741.2	739.5	741.2	739.5	738.9	739.5
40°	673.1	679.4	680.6	686.9	684.6	688.1	687.5
42.5°	609.5	619.9	624.0	629.1	628.0	630.3	632.0
45°	545.4	554.0	558.1	561.6	562.1	563.3	563.9
47.5°	484.7	491.6	492.2	496.3	495.7	495.7	497.4
50°	428.1	432.7	433.9	436.8	434.5	433.3	433.9
52.5°	375.5	380.1	379.0	380.1	377.3	376.1	376.7
55°	321.8	324.1	324.1	324.1	320.6	320.6	320.6
57.5°	266.9	267.5	266.3	266.9	266.3	262.9	262.3
60°	216.7	216.7	216.1	216.7	214.9	213.2	213.2
62.5°	169.3	170.4	172.7	170.4	169.3	170.4	168.7
65°	126.5	128.8	128.2	129.4	128.8	128.8	127.7
67.5°	95.3	95.9	96.5	97.1	97.1	97.1	97.1
70°	69.9	71.6	71.1	71.1	71.1	71.1	74.5
72.5°	46.8	49.1	48.5	49.7	49.7	50.8	49.7
75°	31.8	34.1	32.9	34.7	34.1	32.9	35.8
77.5°	21.4	22.5	23.1	23.7	23.1	22.5	23.1
80°	15.0	16.2	15.6	16.2	16.2	16.2	16.8
82.5°	9.3	11.0	10.4	11.0	10.4	11.0	11.0
85°	6.3	6.9	5.8	6.9	6.3	6.3	7.5
87.5°	4.0	3.5	3.5	4.0	3.5	4.0	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)