

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: P246026

Luminaire Tested: **LD8B20D010 ER8B20930 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246026
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 ER8B20930 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1792.5 lumens
Efficiency: N/A
Efficacy: 84.2 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

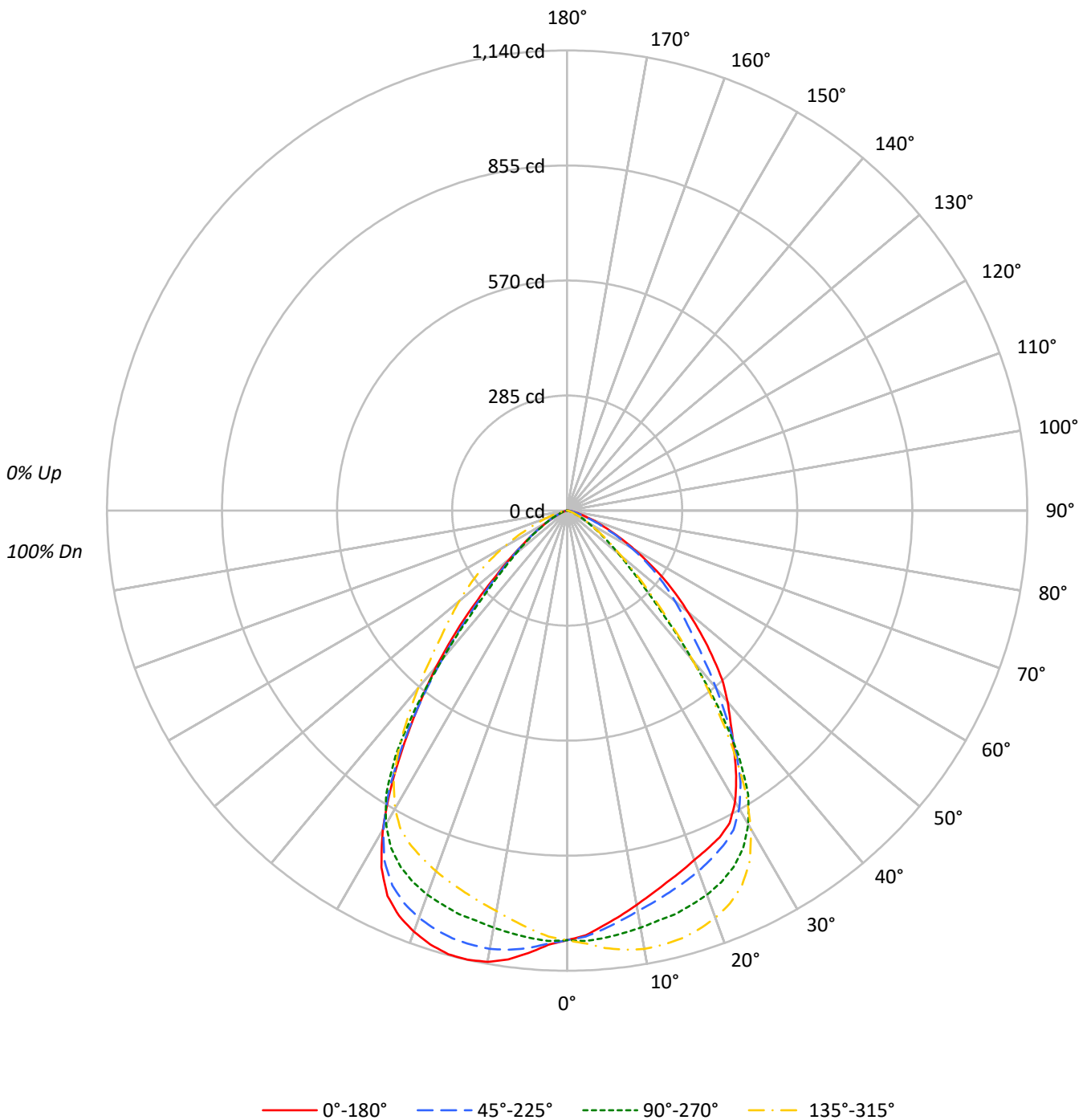
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	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°	101.3	5.7
10°-20°	293.3	16.4
20°-30°	444.1	24.8
30°-40°	445.1	24.8
40°-50°	279.5	15.6
50°-60°	148.9	8.3
60°-70°	61.3	3.4
70°-80°	16.2	0.9
80°-90°	2.7	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°	838.7	46.8
0°-40°	1283.8	71.6
0°-60°	1712.3	95.5
0°-90°	1792.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1792.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1064	1064	1064	1064	1064	
5°	1032	1063	1100	1063	1032	97
15°	953	1035	1138	1035	953	270
25°	893	975	1053	975	893	410
35°	720	740	702	740	720	451
45°	507	271	314	271	507	390
55°	288	100	106	100	288	257
65°	115	31	28	31	115	119
75°	32	6	5	6	32	36
85°	7	0	1	0	7	7
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°	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1053.2	1052.2	1051.7	1052.7	1053.2	1055.3	1054.7	1055.9	1055.9	1056.3	1057.3
5°	1031.9	1031.4	1031.9	1031.9	1034.0	1036.0	1035.6	1037.1	1038.2	1040.7	1041.7
7.5°	1012.2	1012.2	1011.7	1013.7	1014.7	1017.9	1017.4	1020.0	1021.6	1024.1	1027.7
10°	991.9	991.9	992.4	994.0	994.6	999.1	999.1	1002.8	1004.9	1007.6	1012.2
12.5°	972.1	972.1	975.3	974.3	976.3	980.0	981.5	985.1	988.3	993.4	998.1
15°	953.4	953.4	954.5	957.1	958.7	963.4	966.0	970.1	973.7	979.0	985.7
17.5°	937.4	936.8	937.4	940.5	943.5	947.7	949.8	955.0	958.7	965.4	971.7
20°	921.2	922.2	922.2	924.9	927.0	932.1	934.2	940.0	944.1	950.4	957.7
22.5°	907.2	906.7	906.7	910.4	911.9	916.5	918.7	923.8	928.5	933.7	940.5
25°	893.2	892.1	894.2	894.8	895.8	900.9	902.5	906.2	910.8	915.5	922.2
27.5°	872.4	871.4	871.9	873.9	875.5	879.6	880.8	884.4	887.9	892.1	897.9
30°	832.3	831.3	830.9	834.5	836.0	839.2	840.8	846.9	847.9	852.6	856.8
32.5°	779.4	778.9	779.9	783.0	784.6	788.7	790.9	794.5	797.0	799.6	803.9
35°	720.1	719.1	720.1	723.3	723.3	727.0	728.5	730.0	729.5	730.0	729.0
37.5°	665.1	664.5	665.1	666.7	665.1	666.7	665.1	662.0	656.2	650.1	643.8
40°	618.3	618.8	615.8	617.8	612.1	611.1	605.3	597.5	586.1	573.6	556.0
42.5°	568.5	566.9	564.8	565.9	561.2	557.5	548.2	538.3	523.7	503.0	481.7
45°	507.1	506.6	505.6	505.0	502.0	498.3	490.4	479.1	463.0	441.7	416.2
47.5°	447.4	445.8	445.8	446.4	442.7	442.2	436.0	426.1	412.1	391.2	364.8
50°	390.2	389.7	390.8	392.8	390.2	389.2	385.1	378.2	365.8	348.2	323.2
52.5°	338.8	338.2	339.3	341.9	340.9	341.9	337.8	332.6	324.2	307.0	285.3
55°	288.4	288.4	288.4	291.5	291.5	291.5	289.4	286.3	278.5	266.0	245.8
57.5°	235.9	236.4	239.6	240.0	239.6	240.6	240.0	237.0	231.7	223.0	207.3
60°	191.7	191.7	193.3	194.8	194.3	194.8	194.8	193.3	188.1	180.8	168.4
62.5°	151.7	153.2	152.2	153.2	155.4	153.2	152.2	151.2	147.5	142.9	132.5
65°	114.8	115.9	115.9	116.4	115.4	115.9	113.8	112.2	110.2	104.9	98.2
67.5°	87.3	87.3	87.3	87.3	86.8	86.2	85.8	84.2	80.6	78.5	71.2
70°	67.0	63.9	63.9	63.9	63.9	64.5	62.9	60.8	59.7	56.2	50.9
72.5°	44.7	45.7	44.7	44.7	43.6	44.2	42.0	41.0	40.0	37.9	34.9
75°	32.2	29.6	30.6	31.2	29.6	30.6	28.6	26.5	26.5	24.9	23.4
77.5°	20.7	20.3	20.7	21.3	20.7	20.3	19.3	18.2	18.2	17.7	16.1
80°	15.1	14.6	14.6	14.6	14.0	14.6	13.6	13.6	12.4	12.0	10.9
82.5°	9.9	9.9	9.3	9.9	9.3	9.9	8.3	8.3	8.3	7.7	6.7
85°	6.7	5.7	5.7	6.3	5.2	6.3	5.7	5.2	4.7	4.7	4.1
87.5°	3.1	3.6	3.1	3.6	3.1	3.1	3.6	3.1	3.1	2.1	2.1
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°	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1058.9	1059.5	1059.5	1061.6	1062.6	1063.0	1063.0	1067.3	1065.7	1066.7	1067.8
5°	1043.9	1047.0	1048.0	1048.0	1053.7	1055.9	1057.9	1062.6	1063.0	1066.2	1069.9
7.5°	1029.3	1033.0	1035.0	1039.7	1043.3	1047.0	1053.2	1056.3	1059.5	1063.6	1068.3
10°	1015.3	1019.4	1023.6	1027.3	1033.0	1037.6	1041.7	1049.0	1052.7	1058.4	1064.6
12.5°	1001.8	1007.6	1011.1	1017.4	1023.6	1027.7	1034.0	1040.7	1046.5	1052.2	1059.5
15°	989.8	996.6	1000.7	1007.6	1014.3	1020.0	1026.7	1035.0	1039.2	1046.0	1052.7
17.5°	976.8	984.1	989.3	995.6	1003.9	1010.1	1015.9	1024.1	1029.3	1036.6	1044.4
20°	963.4	970.6	976.8	983.1	991.4	997.6	1004.4	1012.7	1018.4	1025.7	1031.9
22.5°	947.2	954.0	960.7	968.0	976.3	981.5	989.3	996.6	1002.8	1009.6	1015.9
25°	926.4	934.8	940.0	946.7	953.4	959.1	967.5	974.7	980.0	986.3	991.9
27.5°	902.1	908.2	912.4	918.1	924.9	930.1	936.3	943.5	948.8	954.5	958.7
30°	860.5	866.2	869.8	873.9	880.8	885.4	890.6	897.4	900.9	905.1	908.8
32.5°	805.9	810.6	812.6	815.8	820.5	825.2	829.3	835.0	836.6	839.2	839.2
35°	727.0	728.0	727.4	728.5	730.6	733.1	736.8	740.4	742.6	742.6	741.0
37.5°	634.4	628.2	621.5	616.2	614.6	613.6	615.8	617.2	619.4	620.4	617.8
40°	538.3	524.3	509.2	495.7	486.3	482.1	480.7	481.7	481.7	485.3	485.3
42.5°	455.7	433.8	411.5	391.2	377.8	367.4	362.6	362.6	363.2	365.8	367.4
45°	387.1	359.5	333.6	311.3	292.6	279.0	272.7	271.3	270.7	271.7	275.4
47.5°	334.6	306.0	279.0	251.4	231.7	218.3	212.5	210.4	208.4	210.4	211.0
50°	293.6	264.0	235.4	207.8	187.1	175.1	167.8	164.7	164.2	164.2	165.2
52.5°	256.1	228.7	200.1	172.0	150.2	138.8	131.9	130.4	128.4	130.4	130.4
55°	220.8	193.3	165.2	138.8	120.5	108.6	102.3	100.3	99.2	100.8	100.8
57.5°	182.4	159.0	133.1	109.1	90.9	82.6	77.9	75.3	74.8	75.9	74.8
60°	149.7	129.9	107.5	85.8	71.7	62.9	59.2	58.2	57.2	58.2	58.2
62.5°	118.5	101.9	83.6	67.0	55.0	48.9	44.7	44.7	44.2	44.2	44.7
65°	87.8	74.8	61.9	47.8	38.5	33.7	30.6	30.6	30.2	30.6	30.2
67.5°	63.9	55.0	44.7	34.9	27.6	24.9	22.9	21.3	22.3	21.3	20.7
70°	46.7	39.5	32.2	26.5	21.3	18.7	17.2	16.6	15.6	15.6	15.6
72.5°	31.2	26.5	21.9	17.2	14.0	11.4	10.9	9.9	8.9	9.3	10.4
75°	20.7	17.7	15.6	12.4	9.3	9.3	6.3	6.3	5.2	6.3	4.7
77.5°	14.6	12.0	9.3	7.7	6.3	5.7	4.1	4.1	3.6	3.6	3.6
80°	10.4	8.9	6.7	5.7	4.1	4.1	3.6	3.1	2.6	2.6	3.1
82.5°	6.3	4.7	4.7	4.1	2.6	2.1	1.6	2.1	1.0	1.0	1.0
85°	3.6	3.1	2.6	1.6	1.0	1.0	0.6	0.0	0.6	0.6	0.0
87.5°	2.1	1.0	1.0	0.6	0.0	0.6	0.6	0.0	0.0	0.0	1.0
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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1070.3	1069.9	1070.9	1070.9	1074.0	1073.5	1075.0	1075.0	1074.0	1074.5	1076.6
5°	1074.0	1075.6	1078.6	1081.3	1085.9	1088.0	1090.6	1093.2	1093.8	1095.3	1096.9
7.5°	1074.0	1079.2	1082.9	1087.5	1093.8	1097.3	1103.1	1107.8	1109.9	1112.5	1115.6
10°	1071.9	1077.2	1083.9	1089.1	1096.9	1102.6	1108.3	1115.6	1118.6	1122.8	1127.1
12.5°	1067.8	1073.5	1080.8	1087.5	1096.3	1101.5	1108.8	1115.6	1120.2	1125.9	1130.6
15°	1061.6	1068.3	1075.0	1081.8	1091.2	1097.3	1104.2	1111.9	1116.6	1122.8	1127.1
17.5°	1051.7	1058.9	1065.2	1071.5	1080.2	1087.5	1093.8	1101.0	1105.8	1110.9	1116.6
20°	1039.7	1046.5	1053.2	1058.4	1067.3	1073.5	1080.2	1087.0	1090.6	1091.6	1100.5
22.5°	1024.7	1029.3	1034.6	1042.9	1048.0	1053.7	1060.0	1066.2	1069.9	1075.6	1078.6
25°	999.7	1004.4	1010.1	1013.7	1020.0	1024.7	1030.9	1037.6	1039.7	1043.9	1047.0
27.5°	965.0	967.5	970.1	973.3	976.8	979.4	983.1	986.3	988.3	990.4	992.4
30°	909.8	909.8	909.8	907.8	909.2	910.8	911.4	910.8	910.8	910.4	910.4
32.5°	837.1	832.9	828.2	824.0	822.5	820.5	819.5	817.9	815.3	813.7	814.2
35°	738.9	729.5	723.8	718.6	714.4	711.4	709.8	708.2	707.7	705.7	703.5
37.5°	616.2	609.5	605.3	602.2	598.6	595.5	595.9	596.5	598.1	597.0	597.5
40°	486.3	484.8	486.3	482.7	481.7	482.7	485.3	489.0	491.0	493.1	496.7
42.5°	369.9	372.5	376.2	376.2	377.8	379.8	382.9	388.7	391.8	395.4	399.5
45°	278.5	281.6	286.3	287.9	288.9	291.5	295.2	299.8	301.9	305.0	308.6
47.5°	214.6	216.7	219.3	221.8	224.4	225.5	229.1	229.1	231.7	233.8	234.8
50°	167.4	169.4	171.5	173.0	174.1	175.7	176.7	178.2	178.7	179.8	180.3
52.5°	130.9	133.5	133.5	134.5	136.1	137.7	137.2	137.7	138.2	138.2	139.8
55°	102.3	102.3	103.9	103.9	104.9	104.5	104.9	104.9	104.9	104.9	105.5
57.5°	76.3	76.9	78.5	77.5	76.9	77.9	76.9	77.9	77.5	78.5	76.9
60°	58.7	58.7	59.2	59.2	59.7	59.7	59.7	59.2	59.2	58.7	58.7
62.5°	44.2	44.7	45.2	44.7	44.7	44.7	44.2	44.2	43.6	43.2	43.2
65°	29.6	29.1	30.2	29.1	29.6	29.6	29.1	29.6	28.0	28.6	28.0
67.5°	21.3	20.7	20.3	20.7	20.3	19.7	19.7	20.3	20.7	19.3	19.3
70°	14.0	14.6	14.0	14.6	15.1	15.1	14.6	14.0	14.6	13.6	14.0
72.5°	8.9	8.9	8.9	8.9	8.9	9.3	9.3	9.3	8.3	8.3	7.7
75°	4.1	5.7	4.7	4.1	5.7	5.7	5.2	5.2	4.7	4.7	4.7
77.5°	4.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.6	3.1	2.6
80°	2.1	2.1	2.1	1.6	2.1	2.1	2.6	2.1	2.1	1.6	2.6
82.5°	1.0	1.0	1.0	0.0	0.6	1.0	1.0	0.6	1.0	1.0	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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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1076.0	1075.6	1076.0	1076.6	1076.0	1075.6	1076.0	1076.6	1074.5	1074.0	1075.0
5°	1098.9	1098.9	1100.0	1100.5	1100.0	1098.9	1098.9	1096.9	1095.3	1093.8	1093.2
7.5°	1118.6	1119.8	1120.8	1121.3	1120.8	1119.8	1118.6	1115.6	1112.5	1109.9	1107.8
10°	1130.6	1132.2	1134.3	1135.3	1134.3	1132.2	1130.6	1127.1	1122.8	1118.6	1115.6
12.5°	1135.8	1137.4	1139.9	1139.5	1139.9	1137.4	1135.8	1130.6	1125.9	1120.2	1115.6
15°	1132.2	1134.3	1136.9	1137.9	1136.9	1134.3	1132.2	1127.1	1122.8	1116.6	1111.9
17.5°	1120.8	1123.9	1125.5	1127.1	1125.5	1123.9	1120.8	1116.6	1110.9	1105.8	1101.0
20°	1105.2	1107.3	1109.3	1109.9	1109.3	1107.3	1105.2	1100.5	1091.6	1090.6	1087.0
22.5°	1082.9	1084.5	1089.1	1087.5	1089.1	1084.5	1082.9	1078.6	1075.6	1069.9	1066.2
25°	1050.6	1052.2	1052.7	1053.2	1052.7	1052.2	1050.6	1047.0	1043.9	1039.7	1037.6
27.5°	995.0	995.0	996.0	996.6	996.0	995.0	995.0	992.4	990.4	988.3	986.3
30°	910.8	910.8	910.8	913.5	910.8	910.8	910.8	910.4	910.4	910.8	910.8
32.5°	813.7	812.6	811.6	812.6	811.6	812.6	813.7	814.2	813.7	815.3	817.9
35°	703.5	703.0	704.5	702.5	704.5	703.0	703.5	703.5	705.7	707.7	708.2
37.5°	598.1	597.0	599.1	597.0	599.1	597.0	598.1	597.5	597.0	598.1	596.5
40°	497.8	498.8	498.8	503.0	498.8	498.8	497.8	496.7	493.1	491.0	489.0
42.5°	401.7	404.8	403.7	406.8	403.7	404.8	401.7	399.5	395.4	391.8	388.7
45°	310.7	312.8	312.8	313.9	312.8	312.8	310.7	308.6	305.0	301.9	299.8
47.5°	238.4	238.4	238.4	239.0	238.4	238.4	238.4	234.8	233.8	231.7	229.1
50°	181.4	181.8	182.4	182.9	182.4	181.8	181.4	180.3	179.8	178.7	178.2
52.5°	139.2	139.8	138.8	139.8	138.8	139.8	139.2	139.8	138.2	138.2	137.7
55°	105.5	104.9	105.5	106.0	105.5	104.9	105.5	105.5	104.9	104.9	104.9
57.5°	77.5	76.3	76.3	76.3	76.3	76.3	77.5	76.9	78.5	77.5	77.9
60°	57.7	58.2	58.2	58.7	58.2	58.2	57.7	58.7	58.7	59.2	59.2
62.5°	42.6	44.2	43.2	44.2	43.2	44.2	42.6	43.2	43.2	43.6	44.2
65°	27.6	27.6	27.6	28.0	27.6	27.6	27.6	28.0	28.6	28.0	29.6
67.5°	18.7	19.3	20.3	19.7	20.3	19.3	18.7	19.3	19.3	20.7	20.3
70°	15.1	13.6	13.6	15.1	13.6	13.6	15.1	14.0	13.6	14.6	14.0
72.5°	8.9	7.7	8.9	8.9	8.9	7.7	8.9	7.7	8.3	8.3	9.3
75°	4.7	4.1	3.6	5.2	3.6	4.1	4.7	4.7	4.7	4.7	5.2
77.5°	3.1	2.6	3.6	3.6	3.6	2.6	3.1	2.6	3.1	2.6	3.1
80°	1.6	2.1	1.6	2.6	1.6	2.1	1.6	2.6	1.6	2.1	2.1
82.5°	0.6	1.0	1.0	1.0	1.0	1.0	0.6	0.6	1.0	1.0	0.6
85°	0.0	1.0	0.6	0.6	0.6	1.0	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: P246026

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1075.0	1073.5	1074.0	1070.9	1070.9	1069.9	1070.3	1067.8	1066.7	1065.7	1067.3
5°	1090.6	1088.0	1085.9	1081.3	1078.6	1075.6	1074.0	1069.9	1066.2	1063.0	1062.6
7.5°	1103.1	1097.3	1093.8	1087.5	1082.9	1079.2	1074.0	1068.3	1063.6	1059.5	1056.3
10°	1108.3	1102.6	1096.9	1089.1	1083.9	1077.2	1071.9	1064.6	1058.4	1052.7	1049.0
12.5°	1108.8	1101.5	1096.3	1087.5	1080.8	1073.5	1067.8	1059.5	1052.2	1046.5	1040.7
15°	1104.2	1097.3	1091.2	1081.8	1075.0	1068.3	1061.6	1052.7	1046.0	1039.2	1035.0
17.5°	1093.8	1087.5	1080.2	1071.5	1065.2	1058.9	1051.7	1044.4	1036.6	1029.3	1024.1
20°	1080.2	1073.5	1067.3	1058.4	1053.2	1046.5	1039.7	1031.9	1025.7	1018.4	1012.7
22.5°	1060.0	1053.7	1048.0	1042.9	1034.6	1029.3	1024.7	1015.9	1009.6	1002.8	996.6
25°	1030.9	1024.7	1020.0	1013.7	1010.1	1004.4	999.7	991.9	986.3	980.0	974.7
27.5°	983.1	979.4	976.8	973.3	970.1	967.5	965.0	958.7	954.5	948.8	943.5
30°	911.4	910.8	909.2	907.8	909.8	909.8	909.8	908.8	905.1	900.9	897.4
32.5°	819.5	820.5	822.5	824.0	828.2	832.9	837.1	839.2	839.2	836.6	835.0
35°	709.8	711.4	714.4	718.6	723.8	729.5	738.9	741.0	742.6	742.6	740.4
37.5°	595.9	595.5	598.6	602.2	605.3	609.5	616.2	617.8	620.4	619.4	617.2
40°	485.3	482.7	481.7	482.7	486.3	484.8	486.3	485.3	485.3	481.7	481.7
42.5°	382.9	379.8	377.8	376.2	376.2	372.5	369.9	367.4	365.8	363.2	362.6
45°	295.2	291.5	288.9	287.9	286.3	281.6	278.5	275.4	271.7	270.7	271.3
47.5°	229.1	225.5	224.4	221.8	219.3	216.7	214.6	211.0	210.4	208.4	210.4
50°	176.7	175.7	174.1	173.0	171.5	169.4	167.4	165.2	164.2	164.2	164.7
52.5°	137.2	137.7	136.1	134.5	133.5	133.5	130.9	130.4	130.4	128.4	130.4
55°	104.9	104.5	104.9	103.9	103.9	102.3	102.3	100.8	100.8	99.2	100.3
57.5°	76.9	77.9	76.9	77.5	78.5	76.9	76.3	74.8	75.9	74.8	75.3
60°	59.7	59.7	59.7	59.2	59.2	58.7	58.7	58.2	58.2	57.2	58.2
62.5°	44.2	44.7	44.7	44.7	45.2	44.7	44.2	44.7	44.2	44.2	44.7
65°	29.1	29.6	29.6	29.1	30.2	29.1	29.6	30.2	30.6	30.2	30.6
67.5°	19.7	19.7	20.3	20.7	20.3	20.7	21.3	20.7	21.3	22.3	21.3
70°	14.6	15.1	15.1	14.6	14.0	14.6	14.0	15.6	15.6	15.6	16.6
72.5°	9.3	9.3	8.9	8.9	8.9	8.9	8.9	10.4	9.3	8.9	9.9
75°	5.2	5.7	5.7	4.1	4.7	5.7	4.1	4.7	6.3	5.2	6.3
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.1	3.6	3.6	3.6	4.1
80°	2.6	2.1	2.1	1.6	2.1	2.1	2.1	3.1	2.6	2.6	3.1
82.5°	1.0	1.0	0.6	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1
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	1.0	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: P246026

CATALOG NUMBER: LD8B20D010 ER8B20930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1063.0	1063.0	1062.6	1061.6	1059.5	1059.5	1058.9	1057.3	1056.3	1055.9	1055.9
5°	1057.9	1055.9	1053.7	1048.0	1048.0	1047.0	1043.9	1041.7	1040.7	1038.2	1037.1
7.5°	1053.2	1047.0	1043.3	1039.7	1035.0	1033.0	1029.3	1027.7	1024.1	1021.6	1020.0
10°	1041.7	1037.6	1033.0	1027.3	1023.6	1019.4	1015.3	1012.2	1007.6	1004.9	1002.8
12.5°	1034.0	1027.7	1023.6	1017.4	1011.1	1007.6	1001.8	998.1	993.4	988.3	985.1
15°	1026.7	1020.0	1014.3	1007.6	1000.7	996.6	989.8	985.7	979.0	973.7	970.1
17.5°	1015.9	1010.1	1003.9	995.6	989.3	984.1	976.8	971.7	965.4	958.7	955.0
20°	1004.4	997.6	991.4	983.1	976.8	970.6	963.4	957.7	950.4	944.1	940.0
22.5°	989.3	981.5	976.3	968.0	960.7	954.0	947.2	940.5	933.7	928.5	923.8
25°	967.5	959.1	953.4	946.7	940.0	934.8	926.4	922.2	915.5	910.8	906.2
27.5°	936.3	930.1	924.9	918.1	912.4	908.2	902.1	897.9	892.1	887.9	884.4
30°	890.6	885.4	880.8	873.9	869.8	866.2	860.5	856.8	852.6	847.9	846.9
32.5°	829.3	825.2	820.5	815.8	812.6	810.6	805.9	803.9	799.6	797.0	794.5
35°	736.8	733.1	730.6	728.5	727.4	728.0	727.0	729.0	730.0	729.5	730.0
37.5°	615.8	613.6	614.6	616.2	621.5	628.2	634.4	643.8	650.1	656.2	662.0
40°	480.7	482.1	486.3	495.7	509.2	524.3	538.3	556.0	573.6	586.1	597.5
42.5°	362.6	367.4	377.8	391.2	411.5	433.8	455.7	481.7	503.0	523.7	538.3
45°	272.7	279.0	292.6	311.3	333.6	359.5	387.1	416.2	441.7	463.0	479.1
47.5°	212.5	218.3	231.7	251.4	279.0	306.0	334.6	364.8	391.2	412.1	426.1
50°	167.8	175.1	187.1	207.8	235.4	264.0	293.6	323.2	348.2	365.8	378.2
52.5°	131.9	138.8	150.2	172.0	200.1	228.7	256.1	285.3	307.0	324.2	332.6
55°	102.3	108.6	120.5	138.8	165.2	193.3	220.8	245.8	266.0	278.5	286.3
57.5°	77.9	82.6	90.9	109.1	133.1	159.0	182.4	207.3	223.0	231.7	237.0
60°	59.2	62.9	71.7	85.8	107.5	129.9	149.7	168.4	180.8	188.1	193.3
62.5°	44.7	48.9	55.0	67.0	83.6	101.9	118.5	132.5	142.9	147.5	151.2
65°	30.6	33.7	38.5	47.8	61.9	74.8	87.8	98.2	104.9	110.2	112.2
67.5°	22.9	24.9	27.6	34.9	44.7	55.0	63.9	71.2	78.5	80.6	84.2
70°	17.2	18.7	21.3	26.5	32.2	39.5	46.7	50.9	56.2	59.7	60.8
72.5°	10.9	11.4	14.0	17.2	21.9	26.5	31.2	34.9	37.9	40.0	41.0
75°	6.3	9.3	9.3	12.4	15.6	17.7	20.7	23.4	24.9	26.5	26.5
77.5°	4.1	5.7	6.3	7.7	9.3	12.0	14.6	16.1	17.7	18.2	18.2
80°	3.6	4.1	4.1	5.7	6.7	8.9	10.4	10.9	12.0	12.4	13.6
82.5°	1.6	2.1	2.6	4.1	4.7	4.7	6.3	6.7	7.7	8.3	8.3
85°	0.6	1.0	1.0	1.6	2.6	3.1	3.6	4.1	4.7	4.7	5.2
87.5°	0.6	0.6	0.0	0.6	1.0	1.0	2.1	2.1	2.1	3.1	3.1
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: P246026

CATALOG NUMBER: LD8B20D010 ER8B20930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1054.7	1055.3	1053.2	1052.7	1051.7	1052.2	1053.2
5°	1035.6	1036.0	1034.0	1031.9	1031.9	1031.4	1031.9
7.5°	1017.4	1017.9	1014.7	1013.7	1011.7	1012.2	1012.2
10°	999.1	999.1	994.6	994.0	992.4	991.9	991.9
12.5°	981.5	980.0	976.3	974.3	975.3	972.1	972.1
15°	966.0	963.4	958.7	957.1	954.5	953.4	953.4
17.5°	949.8	947.7	943.5	940.5	937.4	936.8	937.4
20°	934.2	932.1	927.0	924.9	922.2	922.2	921.2
22.5°	918.7	916.5	911.9	910.4	906.7	906.7	907.2
25°	902.5	900.9	895.8	894.8	894.2	892.1	893.2
27.5°	880.8	879.6	875.5	873.9	871.9	871.4	872.4
30°	840.8	839.2	836.0	834.5	830.9	831.3	832.3
32.5°	790.9	788.7	784.6	783.0	779.9	778.9	779.4
35°	728.5	727.0	723.3	723.3	720.1	719.1	720.1
37.5°	665.1	666.7	665.1	666.7	665.1	664.5	665.1
40°	605.3	611.1	612.1	617.8	615.8	618.8	618.3
42.5°	548.2	557.5	561.2	565.9	564.8	566.9	568.5
45°	490.4	498.3	502.0	505.0	505.6	506.6	507.1
47.5°	436.0	442.2	442.7	446.4	445.8	445.8	447.4
50°	385.1	389.2	390.2	392.8	390.8	389.7	390.2
52.5°	337.8	341.9	340.9	341.9	339.3	338.2	338.8
55°	289.4	291.5	291.5	291.5	288.4	288.4	288.4
57.5°	240.0	240.6	239.6	240.0	239.6	236.4	235.9
60°	194.8	194.8	194.3	194.8	193.3	191.7	191.7
62.5°	152.2	153.2	155.4	153.2	152.2	153.2	151.7
65°	113.8	115.9	115.4	116.4	115.9	115.9	114.8
67.5°	85.8	86.2	86.8	87.3	87.3	87.3	87.3
70°	62.9	64.5	63.9	63.9	63.9	63.9	67.0
72.5°	42.0	44.2	43.6	44.7	44.7	45.7	44.7
75°	28.6	30.6	29.6	31.2	30.6	29.6	32.2
77.5°	19.3	20.3	20.7	21.3	20.7	20.3	20.7
80°	13.6	14.6	14.0	14.6	14.6	14.6	15.1
82.5°	8.3	9.9	9.3	9.9	9.3	9.9	9.9
85°	5.7	6.3	5.2	6.3	5.7	5.7	6.7
87.5°	3.6	3.1	3.1	3.6	3.1	3.6	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)