

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: P244586

Luminaire Tested: **LD8B20D010 ER8B20930 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244586
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 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1811.5 lumens
Efficiency: N/A
Efficacy: 85.0 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

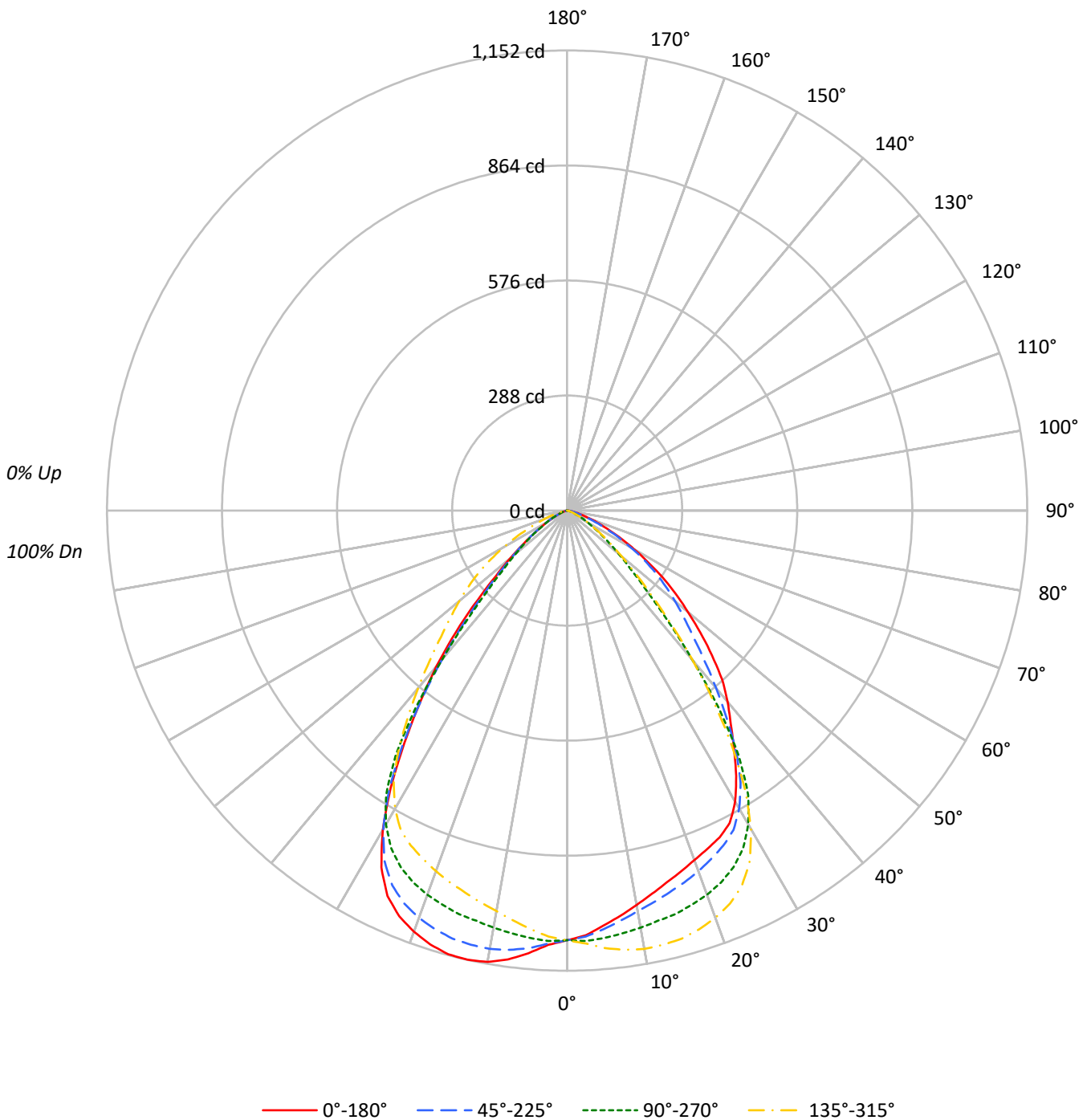
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	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°	102.4	5.7
10°-20°	296.4	16.4
20°-30°	448.8	24.8
30°-40°	449.9	24.8
40°-50°	282.5	15.6
50°-60°	150.5	8.3
60°-70°	61.9	3.4
70°-80°	16.3	0.9
80°-90°	2.8	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°	847.6	46.8
0°-40°	1297.5	71.6
0°-60°	1730.5	95.5
0°-90°	1811.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1811.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1076	1076	1076	1076	1076	
5°	1043	1074	1112	1074	1043	98
15°	964	1046	1150	1046	964	273
25°	903	985	1064	985	903	414
35°	728	748	710	748	728	456
45°	512	274	317	274	512	394
55°	292	101	107	101	292	260
65°	116	31	28	31	116	120
75°	32	6	5	6	32	37
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°	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5
2.5°	1064.4	1063.4	1062.8	1063.9	1064.4	1066.5	1066.0	1067.1	1067.1	1067.5	1068.6
5°	1042.9	1042.3	1042.9	1042.9	1045.0	1047.1	1046.6	1048.1	1049.1	1051.8	1052.8
7.5°	1022.9	1022.9	1022.5	1024.5	1025.6	1028.7	1028.2	1030.9	1032.4	1035.0	1038.7
10°	1002.5	1002.5	1003.0	1004.5	1005.1	1009.8	1009.8	1013.5	1015.6	1018.2	1022.9
12.5°	982.6	982.6	985.7	984.6	986.7	990.4	992.0	995.7	998.8	1004.1	1008.8
15°	963.6	963.6	964.6	967.3	968.9	973.6	976.2	980.4	984.1	989.4	996.1
17.5°	947.4	946.8	947.4	950.5	953.6	957.8	959.9	965.2	968.9	975.7	982.0
20°	931.0	932.1	932.1	934.7	936.8	942.1	944.2	949.9	954.2	960.5	967.8
22.5°	916.9	916.3	916.3	920.0	921.6	926.3	928.4	933.7	938.4	943.7	950.5
25°	902.7	901.6	903.8	904.3	905.3	910.6	912.2	915.9	920.6	925.3	932.1
27.5°	881.7	880.7	881.1	883.2	884.8	889.1	890.1	893.8	897.5	901.6	907.4
30°	841.2	840.2	839.6	843.3	844.9	848.0	849.6	856.0	857.0	861.7	866.0
32.5°	787.7	787.2	788.2	791.3	792.9	797.1	799.3	802.9	805.6	808.1	812.4
35°	727.9	726.7	727.9	731.0	731.0	734.7	736.3	737.8	737.3	737.8	736.7
37.5°	672.2	671.6	672.2	673.7	672.2	673.7	672.2	669.0	663.3	656.9	650.6
40°	624.8	625.4	622.3	624.4	618.6	617.6	611.7	603.9	592.3	579.8	561.8
42.5°	574.5	572.9	570.8	571.8	567.1	563.4	554.0	544.0	529.3	508.4	486.7
45°	512.5	512.0	511.0	510.4	507.3	503.6	495.7	484.2	467.9	446.4	420.6
47.5°	452.1	450.5	450.5	451.1	447.4	446.8	440.6	430.6	416.5	395.4	368.6
50°	394.4	393.8	394.9	396.9	394.4	393.4	389.1	382.3	369.7	351.9	326.7
52.5°	342.4	341.9	342.9	345.5	344.5	345.5	341.3	336.1	327.7	310.3	288.3
55°	291.5	291.5	291.5	294.6	294.6	294.6	292.5	289.3	281.5	268.8	248.4
57.5°	238.4	238.9	242.1	242.6	242.1	243.1	242.6	239.4	234.2	225.3	209.5
60°	193.8	193.8	195.4	197.0	196.4	197.0	197.0	195.4	190.1	182.7	170.2
62.5°	153.4	154.9	153.8	154.9	157.1	154.9	153.8	152.8	149.1	144.4	133.8
65°	116.0	117.1	117.1	117.6	116.6	117.1	115.0	113.4	111.3	106.0	99.2
67.5°	88.2	88.2	88.2	88.2	87.7	87.2	86.7	85.1	81.4	79.3	72.0
70°	67.7	64.6	64.6	64.6	64.6	65.1	63.6	61.4	60.4	56.7	51.5
72.5°	45.2	46.2	45.2	45.2	44.2	44.6	42.5	41.5	40.5	38.3	35.2
75°	32.5	29.9	30.9	31.5	29.9	30.9	28.9	26.8	26.8	25.2	23.7
77.5°	21.0	20.5	21.0	21.5	21.0	20.5	19.4	18.4	18.4	17.8	16.3
80°	15.2	14.7	14.7	14.7	14.1	14.7	13.7	13.7	12.6	12.1	11.0
82.5°	10.0	10.0	9.4	10.0	9.4	10.0	8.4	8.4	8.4	7.8	6.8
85°	6.8	5.7	5.7	6.3	5.3	6.3	5.7	5.3	4.7	4.7	4.1
87.5°	3.1	3.7	3.1	3.7	3.1	3.1	3.7	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°	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5
2.5°	1070.2	1070.7	1070.7	1072.8	1073.9	1074.4	1074.4	1078.6	1077.1	1078.1	1079.1
5°	1055.0	1058.1	1059.1	1059.1	1065.0	1067.1	1069.1	1073.9	1074.4	1077.5	1081.2
7.5°	1040.3	1044.0	1046.0	1050.7	1054.4	1058.1	1064.4	1067.5	1070.7	1074.9	1079.6
10°	1026.1	1030.3	1034.5	1038.2	1044.0	1048.7	1052.8	1060.2	1063.9	1069.7	1075.9
12.5°	1012.5	1018.2	1021.9	1028.2	1034.5	1038.7	1045.0	1051.8	1057.6	1063.4	1070.7
15°	1000.4	1007.2	1011.4	1018.2	1025.0	1030.9	1037.6	1046.0	1050.3	1057.1	1063.9
17.5°	987.3	994.6	999.8	1006.1	1014.5	1020.8	1026.6	1035.0	1040.3	1047.6	1055.5
20°	973.6	981.0	987.3	993.5	1001.9	1008.2	1015.1	1023.5	1029.2	1036.6	1042.9
22.5°	957.3	964.2	970.9	978.3	986.7	992.0	999.8	1007.2	1013.5	1020.3	1026.6
25°	936.3	944.7	949.9	956.8	963.6	969.3	977.7	985.1	990.4	996.7	1002.5
27.5°	911.6	917.9	922.1	927.9	934.7	940.0	946.2	953.6	958.9	964.6	968.9
30°	869.6	875.4	879.1	883.2	890.1	894.8	900.1	906.9	910.6	914.7	918.4
32.5°	814.4	819.2	821.2	824.5	829.2	833.9	838.1	843.9	845.5	848.0	848.0
35°	734.7	735.7	735.2	736.3	738.3	741.0	744.6	748.3	750.4	750.4	748.8
37.5°	641.2	634.9	628.1	622.8	621.3	620.1	622.3	623.8	626.0	627.0	624.4
40°	544.0	529.9	514.7	501.0	491.6	487.3	485.7	486.7	486.7	490.4	490.4
42.5°	460.5	438.4	415.9	395.4	381.7	371.3	366.6	366.6	367.0	369.7	371.3
45°	391.2	363.4	337.1	314.6	295.6	281.9	275.7	274.1	273.6	274.6	278.3
47.5°	338.2	309.3	281.9	254.1	234.2	220.5	214.8	212.7	210.5	212.7	213.2
50°	296.7	266.8	237.9	210.1	189.0	177.0	169.6	166.5	165.9	165.9	167.0
52.5°	258.8	231.0	202.2	173.9	151.8	140.2	133.4	131.8	129.7	131.8	131.8
55°	223.2	195.4	167.0	140.2	121.9	109.7	103.5	101.3	100.3	101.9	101.9
57.5°	184.3	160.6	134.4	110.3	91.9	83.5	78.8	76.1	75.6	76.7	75.6
60°	151.2	131.3	108.7	86.7	72.5	63.6	59.9	58.9	57.7	58.9	58.9
62.5°	119.7	102.9	84.5	67.7	55.6	49.3	45.2	45.2	44.6	44.6	45.2
65°	88.8	75.6	62.4	48.3	38.9	34.1	30.9	30.9	30.5	30.9	30.5
67.5°	64.6	55.6	45.2	35.2	27.8	25.2	23.1	21.5	22.5	21.5	21.0
70°	47.3	39.9	32.5	26.8	21.5	18.9	17.4	16.8	15.8	15.8	15.8
72.5°	31.5	26.8	22.1	17.4	14.1	11.5	11.0	10.0	9.0	9.4	10.5
75°	21.0	17.8	15.8	12.6	9.4	9.4	6.3	6.3	5.3	6.3	4.7
77.5°	14.7	12.1	9.4	7.8	6.3	5.7	4.1	4.1	3.7	3.7	3.7
80°	10.5	9.0	6.8	5.7	4.1	4.1	3.7	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°	3.7	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°	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5
2.5°	1081.8	1081.2	1082.3	1082.3	1085.5	1084.9	1086.5	1086.5	1085.5	1085.9	1088.0
5°	1085.5	1087.0	1090.2	1092.8	1097.5	1099.6	1102.3	1104.9	1105.4	1107.0	1108.6
7.5°	1085.5	1090.7	1094.3	1099.0	1105.4	1109.1	1114.8	1119.5	1121.7	1124.3	1127.4
10°	1083.3	1088.6	1095.4	1100.7	1108.6	1114.3	1120.1	1127.4	1130.6	1134.8	1139.0
12.5°	1079.1	1084.9	1092.2	1099.0	1108.0	1113.3	1120.6	1127.4	1132.2	1137.9	1142.6
15°	1072.8	1079.6	1086.5	1093.3	1102.7	1109.1	1115.8	1123.8	1128.5	1134.8	1139.0
17.5°	1062.8	1070.2	1076.5	1082.8	1091.7	1099.0	1105.4	1112.7	1117.5	1122.7	1128.5
20°	1050.7	1057.6	1064.4	1069.7	1078.6	1084.9	1091.7	1098.6	1102.3	1103.3	1112.3
22.5°	1035.6	1040.3	1045.6	1054.0	1059.1	1065.0	1071.2	1077.5	1081.2	1087.0	1090.2
25°	1010.4	1015.1	1020.8	1024.5	1030.9	1035.6	1041.9	1048.7	1050.7	1055.0	1058.1
27.5°	975.2	977.7	980.4	983.6	987.3	989.8	993.5	996.7	998.8	1000.8	1003.0
30°	919.4	919.4	919.4	917.4	919.0	920.6	921.0	920.6	920.6	920.0	920.0
32.5°	846.0	841.8	837.1	832.9	831.2	829.2	828.1	826.5	823.9	822.4	822.8
35°	746.7	737.3	731.5	726.3	722.0	718.9	717.3	715.8	715.2	713.2	711.1
37.5°	622.8	616.0	611.7	608.6	604.9	601.8	602.3	602.9	604.4	603.3	603.9
40°	491.6	490.0	491.6	487.9	486.7	487.9	490.4	494.1	496.3	498.4	502.0
42.5°	373.9	376.5	380.2	380.2	381.7	383.8	387.0	392.8	395.9	399.6	403.8
45°	281.5	284.6	289.3	290.9	292.0	294.6	298.3	303.0	305.1	308.3	312.0
47.5°	216.9	218.9	221.6	224.2	226.9	227.9	231.6	231.6	234.2	236.3	237.3
50°	169.0	171.2	173.3	174.9	175.9	177.5	178.6	180.1	180.6	181.7	182.2
52.5°	132.3	135.0	135.0	136.0	137.5	139.1	138.7	139.1	139.7	139.7	141.2
55°	103.5	103.5	105.0	105.0	106.0	105.6	106.0	106.0	106.0	106.0	106.6
57.5°	77.2	77.7	79.3	78.2	77.7	78.8	77.7	78.8	78.2	79.3	77.7
60°	59.3	59.3	59.9	59.9	60.4	60.4	60.4	59.9	59.9	59.3	59.3
62.5°	44.6	45.2	45.7	45.2	45.2	45.2	44.6	44.6	44.2	43.6	43.6
65°	29.9	29.4	30.5	29.4	29.9	29.9	29.4	29.9	28.4	28.9	28.4
67.5°	21.5	21.0	20.5	21.0	20.5	20.0	20.0	20.5	21.0	19.4	19.4
70°	14.1	14.7	14.1	14.7	15.2	15.2	14.7	14.1	14.7	13.7	14.1
72.5°	9.0	9.0	9.0	9.0	9.0	9.4	9.4	9.4	8.4	8.4	7.8
75°	4.1	5.7	4.7	4.1	5.7	5.7	5.3	5.3	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°	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5
2.5°	1087.5	1087.0	1087.5	1088.0	1087.5	1087.0	1087.5	1088.0	1085.9	1085.5	1086.5
5°	1110.7	1110.7	1111.7	1112.3	1111.7	1110.7	1110.7	1108.6	1107.0	1105.4	1104.9
7.5°	1130.6	1131.6	1132.7	1133.2	1132.7	1131.6	1130.6	1127.4	1124.3	1121.7	1119.5
10°	1142.6	1144.2	1146.3	1147.3	1146.3	1144.2	1142.6	1139.0	1134.8	1130.6	1127.4
12.5°	1147.9	1149.5	1152.2	1151.6	1152.2	1149.5	1147.9	1142.6	1137.9	1132.2	1127.4
15°	1144.2	1146.3	1148.9	1150.0	1148.9	1146.3	1144.2	1139.0	1134.8	1128.5	1123.8
17.5°	1132.7	1135.8	1137.4	1139.0	1137.4	1135.8	1132.7	1128.5	1122.7	1117.5	1112.7
20°	1117.0	1119.1	1121.1	1121.7	1121.1	1119.1	1117.0	1112.3	1103.3	1102.3	1098.6
22.5°	1094.3	1095.9	1100.7	1099.0	1100.7	1095.9	1094.3	1090.2	1087.0	1081.2	1077.5
25°	1061.8	1063.4	1063.9	1064.4	1063.9	1063.4	1061.8	1058.1	1055.0	1050.7	1048.7
27.5°	1005.6	1005.6	1006.7	1007.2	1006.7	1005.6	1005.6	1003.0	1000.8	998.8	996.7
30°	920.6	920.6	920.6	923.1	920.6	920.6	920.6	920.0	920.0	920.6	920.6
32.5°	822.4	821.2	820.2	821.2	820.2	821.2	822.4	822.8	822.4	823.9	826.5
35°	711.1	710.5	712.1	709.9	712.1	710.5	711.1	711.1	713.2	715.2	715.8
37.5°	604.4	603.3	605.5	603.3	605.5	603.3	604.4	603.9	603.3	604.4	602.9
40°	503.1	504.1	504.1	508.4	504.1	504.1	503.1	502.0	498.4	496.3	494.1
42.5°	405.9	409.1	408.0	411.2	408.0	409.1	405.9	403.8	399.6	395.9	392.8
45°	314.0	316.1	316.1	317.1	316.1	316.1	314.0	312.0	308.3	305.1	303.0
47.5°	241.0	241.0	241.0	241.6	241.0	241.0	241.0	237.3	236.3	234.2	231.6
50°	183.3	183.8	184.3	184.9	184.3	183.8	183.3	182.2	181.7	180.6	180.1
52.5°	140.7	141.2	140.2	141.2	140.2	141.2	140.7	141.2	139.7	139.7	139.1
55°	106.6	106.0	106.6	107.2	106.6	106.0	106.6	106.6	106.0	106.0	106.0
57.5°	78.2	77.2	77.2	77.2	77.2	77.2	78.2	77.7	79.3	78.2	78.8
60°	58.3	58.9	58.9	59.3	58.9	58.9	58.3	59.3	59.3	59.9	59.9
62.5°	43.0	44.6	43.6	44.6	43.6	44.6	43.0	43.6	43.6	44.2	44.6
65°	27.8	27.8	27.8	28.4	27.8	27.8	27.8	28.4	28.9	28.4	29.9
67.5°	18.9	19.4	20.5	20.0	20.5	19.4	18.9	19.4	19.4	21.0	20.5
70°	15.2	13.7	13.7	15.2	13.7	13.7	15.2	14.1	13.7	14.7	14.1
72.5°	9.0	7.8	9.0	9.0	9.0	7.8	9.0	7.8	8.4	8.4	9.4
75°	4.7	4.1	3.7	5.3	3.7	4.1	4.7	4.7	4.7	4.7	5.3
77.5°	3.1	2.6	3.7	3.7	3.7	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: P244586

CATALOG NUMBER: LD8B20D010 ER8B20930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5
2.5°	1086.5	1084.9	1085.5	1082.3	1082.3	1081.2	1081.8	1079.1	1078.1	1077.1	1078.6
5°	1102.3	1099.6	1097.5	1092.8	1090.2	1087.0	1085.5	1081.2	1077.5	1074.4	1073.9
7.5°	1114.8	1109.1	1105.4	1099.0	1094.3	1090.7	1085.5	1079.6	1074.9	1070.7	1067.5
10°	1120.1	1114.3	1108.6	1100.7	1095.4	1088.6	1083.3	1075.9	1069.7	1063.9	1060.2
12.5°	1120.6	1113.3	1108.0	1099.0	1092.2	1084.9	1079.1	1070.7	1063.4	1057.6	1051.8
15°	1115.8	1109.1	1102.7	1093.3	1086.5	1079.6	1072.8	1063.9	1057.1	1050.3	1046.0
17.5°	1105.4	1099.0	1091.7	1082.8	1076.5	1070.2	1062.8	1055.5	1047.6	1040.3	1035.0
20°	1091.7	1084.9	1078.6	1069.7	1064.4	1057.6	1050.7	1042.9	1036.6	1029.2	1023.5
22.5°	1071.2	1065.0	1059.1	1054.0	1045.6	1040.3	1035.6	1026.6	1020.3	1013.5	1007.2
25°	1041.9	1035.6	1030.9	1024.5	1020.8	1015.1	1010.4	1002.5	996.7	990.4	985.1
27.5°	993.5	989.8	987.3	983.6	980.4	977.7	975.2	968.9	964.6	958.9	953.6
30°	921.0	920.6	919.0	917.4	919.4	919.4	919.4	918.4	914.7	910.6	906.9
32.5°	828.1	829.2	831.2	832.9	837.1	841.8	846.0	848.0	848.0	845.5	843.9
35°	717.3	718.9	722.0	726.3	731.5	737.3	746.7	748.8	750.4	750.4	748.3
37.5°	602.3	601.8	604.9	608.6	611.7	616.0	622.8	624.4	627.0	626.0	623.8
40°	490.4	487.9	486.7	487.9	491.6	490.0	491.6	490.4	490.4	486.7	486.7
42.5°	387.0	383.8	381.7	380.2	380.2	376.5	373.9	371.3	369.7	367.0	366.6
45°	298.3	294.6	292.0	290.9	289.3	284.6	281.5	278.3	274.6	273.6	274.1
47.5°	231.6	227.9	226.9	224.2	221.6	218.9	216.9	213.2	212.7	210.5	212.7
50°	178.6	177.5	175.9	174.9	173.3	171.2	169.0	167.0	165.9	165.9	166.5
52.5°	138.7	139.1	137.5	136.0	135.0	135.0	132.3	131.8	131.8	129.7	131.8
55°	106.0	105.6	106.0	105.0	105.0	103.5	103.5	101.9	101.9	100.3	101.3
57.5°	77.7	78.8	77.7	78.2	79.3	77.7	77.2	75.6	76.7	75.6	76.1
60°	60.4	60.4	60.4	59.9	59.9	59.3	59.3	58.9	58.9	57.7	58.9
62.5°	44.6	45.2	45.2	45.2	45.7	45.2	44.6	45.2	44.6	44.6	45.2
65°	29.4	29.9	29.9	29.4	30.5	29.4	29.9	30.5	30.9	30.5	30.9
67.5°	20.0	20.0	20.5	21.0	20.5	21.0	21.5	21.0	21.5	22.5	21.5
70°	14.7	15.2	15.2	14.7	14.1	14.7	14.1	15.8	15.8	15.8	16.8
72.5°	9.4	9.4	9.0	9.0	9.0	9.0	9.0	10.5	9.4	9.0	10.0
75°	5.3	5.7	5.7	4.1	4.7	5.7	4.1	4.7	6.3	5.3	6.3
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.1	3.7	3.7	3.7	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: P244586

CATALOG NUMBER: LD8B20D010 ER8B20930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5
2.5°	1074.4	1074.4	1073.9	1072.8	1070.7	1070.7	1070.2	1068.6	1067.5	1067.1	1067.1
5°	1069.1	1067.1	1065.0	1059.1	1059.1	1058.1	1055.0	1052.8	1051.8	1049.1	1048.1
7.5°	1064.4	1058.1	1054.4	1050.7	1046.0	1044.0	1040.3	1038.7	1035.0	1032.4	1030.9
10°	1052.8	1048.7	1044.0	1038.2	1034.5	1030.3	1026.1	1022.9	1018.2	1015.6	1013.5
12.5°	1045.0	1038.7	1034.5	1028.2	1021.9	1018.2	1012.5	1008.8	1004.1	998.8	995.7
15°	1037.6	1030.9	1025.0	1018.2	1011.4	1007.2	1000.4	996.1	989.4	984.1	980.4
17.5°	1026.6	1020.8	1014.5	1006.1	999.8	994.6	987.3	982.0	975.7	968.9	965.2
20°	1015.1	1008.2	1001.9	993.5	987.3	981.0	973.6	967.8	960.5	954.2	949.9
22.5°	999.8	992.0	986.7	978.3	970.9	964.2	957.3	950.5	943.7	938.4	933.7
25°	977.7	969.3	963.6	956.8	949.9	944.7	936.3	932.1	925.3	920.6	915.9
27.5°	946.2	940.0	934.7	927.9	922.1	917.9	911.6	907.4	901.6	897.5	893.8
30°	900.1	894.8	890.1	883.2	879.1	875.4	869.6	866.0	861.7	857.0	856.0
32.5°	838.1	833.9	829.2	824.5	821.2	819.2	814.4	812.4	808.1	805.6	802.9
35°	744.6	741.0	738.3	736.3	735.2	735.7	734.7	736.7	737.8	737.3	737.8
37.5°	622.3	620.1	621.3	622.8	628.1	634.9	641.2	650.6	656.9	663.3	669.0
40°	485.7	487.3	491.6	501.0	514.7	529.9	544.0	561.8	579.8	592.3	603.9
42.5°	366.6	371.3	381.7	395.4	415.9	438.4	460.5	486.7	508.4	529.3	544.0
45°	275.7	281.9	295.6	314.6	337.1	363.4	391.2	420.6	446.4	467.9	484.2
47.5°	214.8	220.5	234.2	254.1	281.9	309.3	338.2	368.6	395.4	416.5	430.6
50°	169.6	177.0	189.0	210.1	237.9	266.8	296.7	326.7	351.9	369.7	382.3
52.5°	133.4	140.2	151.8	173.9	202.2	231.0	258.8	288.3	310.3	327.7	336.1
55°	103.5	109.7	121.9	140.2	167.0	195.4	223.2	248.4	268.8	281.5	289.3
57.5°	78.8	83.5	91.9	110.3	134.4	160.6	184.3	209.5	225.3	234.2	239.4
60°	59.9	63.6	72.5	86.7	108.7	131.3	151.2	170.2	182.7	190.1	195.4
62.5°	45.2	49.3	55.6	67.7	84.5	102.9	119.7	133.8	144.4	149.1	152.8
65°	30.9	34.1	38.9	48.3	62.4	75.6	88.8	99.2	106.0	111.3	113.4
67.5°	23.1	25.2	27.8	35.2	45.2	55.6	64.6	72.0	79.3	81.4	85.1
70°	17.4	18.9	21.5	26.8	32.5	39.9	47.3	51.5	56.7	60.4	61.4
72.5°	11.0	11.5	14.1	17.4	22.1	26.8	31.5	35.2	38.3	40.5	41.5
75°	6.3	9.4	9.4	12.6	15.8	17.8	21.0	23.7	25.2	26.8	26.8
77.5°	4.1	5.7	6.3	7.8	9.4	12.1	14.7	16.3	17.8	18.4	18.4
80°	3.7	4.1	4.1	5.7	6.8	9.0	10.5	11.0	12.1	12.6	13.7
82.5°	1.6	2.1	2.6	4.1	4.7	4.7	6.3	6.8	7.8	8.4	8.4
85°	0.6	1.0	1.0	1.6	2.6	3.1	3.7	4.1	4.7	4.7	5.3
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: P244586

CATALOG NUMBER: LD8B20D010 ER8B20930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5
2.5°	1066.0	1066.5	1064.4	1063.9	1062.8	1063.4	1064.4
5°	1046.6	1047.1	1045.0	1042.9	1042.9	1042.3	1042.9
7.5°	1028.2	1028.7	1025.6	1024.5	1022.5	1022.9	1022.9
10°	1009.8	1009.8	1005.1	1004.5	1003.0	1002.5	1002.5
12.5°	992.0	990.4	986.7	984.6	985.7	982.6	982.6
15°	976.2	973.6	968.9	967.3	964.6	963.6	963.6
17.5°	959.9	957.8	953.6	950.5	947.4	946.8	947.4
20°	944.2	942.1	936.8	934.7	932.1	932.1	931.0
22.5°	928.4	926.3	921.6	920.0	916.3	916.3	916.9
25°	912.2	910.6	905.3	904.3	903.8	901.6	902.7
27.5°	890.1	889.1	884.8	883.2	881.1	880.7	881.7
30°	849.6	848.0	844.9	843.3	839.6	840.2	841.2
32.5°	799.3	797.1	792.9	791.3	788.2	787.2	787.7
35°	736.3	734.7	731.0	731.0	727.9	726.7	727.9
37.5°	672.2	673.7	672.2	673.7	672.2	671.6	672.2
40°	611.7	617.6	618.6	624.4	622.3	625.4	624.8
42.5°	554.0	563.4	567.1	571.8	570.8	572.9	574.5
45°	495.7	503.6	507.3	510.4	511.0	512.0	512.5
47.5°	440.6	446.8	447.4	451.1	450.5	450.5	452.1
50°	389.1	393.4	394.4	396.9	394.9	393.8	394.4
52.5°	341.3	345.5	344.5	345.5	342.9	341.9	342.4
55°	292.5	294.6	294.6	294.6	291.5	291.5	291.5
57.5°	242.6	243.1	242.1	242.6	242.1	238.9	238.4
60°	197.0	197.0	196.4	197.0	195.4	193.8	193.8
62.5°	153.8	154.9	157.1	154.9	153.8	154.9	153.4
65°	115.0	117.1	116.6	117.6	117.1	117.1	116.0
67.5°	86.7	87.2	87.7	88.2	88.2	88.2	88.2
70°	63.6	65.1	64.6	64.6	64.6	64.6	67.7
72.5°	42.5	44.6	44.2	45.2	45.2	46.2	45.2
75°	28.9	30.9	29.9	31.5	30.9	29.9	32.5
77.5°	19.4	20.5	21.0	21.5	21.0	20.5	21.0
80°	13.7	14.7	14.1	14.7	14.7	14.7	15.2
82.5°	8.4	10.0	9.4	10.0	9.4	10.0	10.0
85°	5.7	6.3	5.3	6.3	5.7	5.7	6.8
87.5°	3.7	3.1	3.1	3.7	3.1	3.7	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)