

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: P244994

Luminaire Tested: **LD8B20D010 ER8B20935 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244994
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 ER8B20935 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1854.0 lumens
Efficiency: N/A
Efficacy: 87.0 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

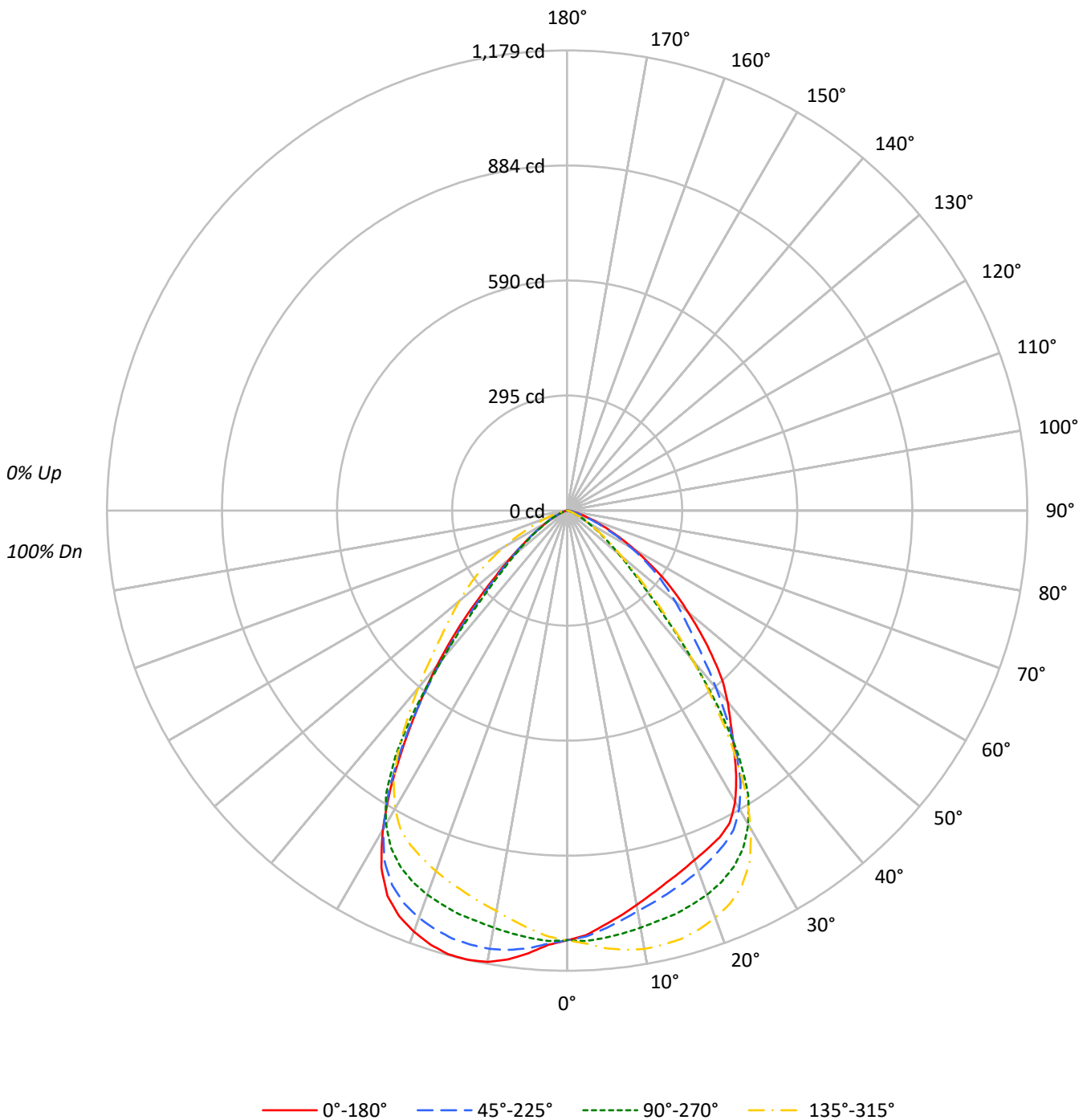
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	33942	33942	33942	33942
5°	33037	34019	35235	34019
10°	32126	33977	36770	33977
15°	31484	34178	37575	34178
20°	31270	34374	37672	34374
25°	31431	34303	37066	34303
30°	30657	33047	33641	33047
35°	28041	28828	27352	28828
40°	25742	20055	20940	20055
45°	22873	12232	14156	12232
50°	19362	8175	9076	8175
55°	16037	5575	5892	5575
60°	12230	3713	3744	3713
65°	8668	2313	2116	2313
70°	6248	1551	1406	1551
75°	3967	774	643	774
80°	2770	568	479	568
85°	2477	0	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	5.7
10°-20°	303.4	16.4
20°-30°	459.4	24.8
30°-40°	460.4	24.8
40°-50°	289.1	15.6
50°-60°	154.1	8.3
60°-70°	63.4	3.4
70°-80°	16.7	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°	867.5	46.8
0°-40°	1327.9	71.6
0°-60°	1771.1	95.5
0°-90°	1854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1854.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1101	1101	1101	1101	1101	
5°	1067	1099	1138	1099	1067	101
15°	986	1071	1177	1071	986	279
25°	924	1008	1089	1008	924	424
35°	745	766	727	766	745	467
45°	524	280	325	280	524	403
55°	298	104	110	104	298	266
65°	119	32	29	32	119	123
75°	33	6	5	6	33	38
85°	7	0	0	0	7	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°	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7
2.5°	1089.4	1088.3	1087.8	1088.8	1089.4	1091.5	1091.0	1092.1	1092.1	1092.6	1093.7
5°	1067.3	1066.8	1067.3	1067.3	1069.5	1071.6	1071.1	1072.7	1073.8	1076.5	1077.5
7.5°	1046.9	1046.9	1046.4	1048.5	1049.6	1052.8	1052.3	1055.0	1056.6	1059.3	1063.0
10°	1026.0	1026.0	1026.5	1028.1	1028.7	1033.5	1033.5	1037.2	1039.4	1042.1	1046.9
12.5°	1005.5	1005.5	1008.8	1007.7	1009.8	1013.6	1015.2	1019.0	1022.2	1027.6	1032.4
15°	986.2	986.2	987.3	989.9	991.6	996.4	999.1	1003.4	1007.2	1012.5	1019.5
17.5°	969.5	969.0	969.5	972.8	976.0	980.3	982.4	987.8	991.6	998.5	1005.0
20°	952.9	954.0	954.0	956.6	958.8	964.2	966.3	972.2	976.5	983.0	990.5
22.5°	938.4	937.8	937.8	941.6	943.2	948.0	950.2	955.5	960.4	965.8	972.8
25°	923.8	922.8	924.9	925.5	926.5	931.9	933.5	937.3	942.1	947.0	954.0
27.5°	902.3	901.3	901.8	904.0	905.6	909.9	910.9	914.7	918.5	922.8	928.7
30°	861.0	859.9	859.4	863.1	864.7	867.9	869.6	876.0	877.1	881.9	886.2
32.5°	806.1	805.6	806.7	809.9	811.5	815.8	818.0	821.7	824.4	827.1	831.4
35°	744.9	743.8	744.9	748.1	748.1	751.9	753.5	755.1	754.6	755.1	754.0
37.5°	687.9	687.4	687.9	689.5	687.9	689.5	687.9	684.7	678.8	672.3	665.9
40°	639.5	640.1	636.9	639.0	633.1	632.0	626.1	618.0	606.2	593.3	575.1
42.5°	588.0	586.3	584.2	585.3	580.4	576.7	567.0	556.8	541.7	520.2	498.2
45°	524.5	524.0	522.9	522.4	519.2	515.4	507.3	495.5	478.9	456.8	430.5
47.5°	462.7	461.1	461.1	461.6	457.9	457.4	450.9	440.7	426.2	404.7	377.3
50°	403.6	403.1	404.2	406.3	403.6	402.5	398.2	391.3	378.4	360.1	334.3
52.5°	350.4	349.9	351.0	353.6	352.5	353.6	349.3	344.0	335.4	317.6	295.1
55°	298.3	298.3	298.3	301.5	301.5	301.5	299.3	296.1	288.1	275.2	254.2
57.5°	244.0	244.5	247.8	248.3	247.8	248.8	248.3	245.1	239.7	230.6	214.4
60°	198.3	198.3	199.9	201.5	201.0	201.5	201.5	199.9	194.6	187.0	174.1
62.5°	156.9	158.5	157.5	158.5	160.7	158.5	157.5	156.4	152.6	147.8	137.0
65°	118.8	119.9	119.9	120.4	119.3	119.9	117.7	116.1	113.9	108.6	101.6
67.5°	90.3	90.3	90.3	90.3	89.7	89.2	88.7	87.1	83.3	81.2	73.6
70°	69.3	66.1	66.1	66.1	66.1	66.7	65.0	62.9	61.8	58.0	52.7
72.5°	46.2	47.3	46.2	46.2	45.1	45.7	43.5	42.5	41.4	39.2	36.0
75°	33.3	30.6	31.7	32.3	30.6	31.7	29.6	27.4	27.4	25.8	24.2
77.5°	21.5	21.0	21.5	22.0	21.5	21.0	19.9	18.8	18.8	18.3	16.7
80°	15.6	15.0	15.0	15.0	14.5	15.0	14.0	14.0	12.9	12.4	11.3
82.5°	10.2	10.2	9.7	10.2	9.7	10.2	8.6	8.6	8.6	8.1	7.0
85°	7.0	5.9	5.9	6.5	5.4	6.5	5.9	5.4	4.8	4.8	4.3
87.5°	3.2	3.8	3.2	3.8	3.2	3.2	3.8	3.2	3.2	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°	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7
2.5°	1095.3	1095.8	1095.8	1098.0	1099.0	1099.6	1099.6	1103.9	1102.3	1103.4	1104.4
5°	1079.7	1082.9	1084.0	1084.0	1089.9	1092.1	1094.2	1099.0	1099.6	1102.8	1106.6
7.5°	1064.6	1068.4	1070.6	1075.4	1079.2	1082.9	1089.4	1092.6	1095.8	1100.1	1105.0
10°	1050.1	1054.4	1058.7	1062.5	1068.4	1073.3	1077.5	1085.1	1088.8	1094.8	1101.2
12.5°	1036.2	1042.1	1045.8	1052.3	1058.7	1063.0	1069.5	1076.5	1082.4	1088.3	1095.8
15°	1023.8	1030.8	1035.1	1042.1	1049.1	1055.0	1062.0	1070.6	1074.9	1081.9	1088.8
17.5°	1010.4	1017.9	1023.3	1029.7	1038.3	1044.8	1050.7	1059.3	1064.6	1072.2	1080.2
20°	996.4	1003.9	1010.4	1016.8	1025.4	1031.9	1038.9	1047.5	1053.4	1060.9	1067.3
22.5°	979.7	986.7	993.7	1001.2	1009.8	1015.2	1023.3	1030.8	1037.2	1044.2	1050.7
25°	958.2	966.9	972.2	979.2	986.2	992.1	1000.7	1008.2	1013.6	1020.1	1026.0
27.5°	933.0	939.4	943.7	949.6	956.6	962.0	968.4	976.0	981.4	987.3	991.6
30°	890.0	895.9	899.7	904.0	910.9	915.8	921.2	928.1	931.9	936.2	940.0
32.5°	833.5	838.4	840.5	843.8	848.6	853.4	857.7	863.7	865.3	867.9	867.9
35°	751.9	752.9	752.4	753.5	755.6	758.3	762.1	765.8	768.0	768.0	766.4
37.5°	656.2	649.8	642.8	637.4	635.8	634.7	636.9	638.5	640.6	641.7	639.0
40°	556.8	542.3	526.7	512.7	503.0	498.7	497.1	498.2	498.2	502.0	502.0
42.5°	471.3	448.8	425.7	404.7	390.7	380.0	375.1	375.1	375.7	378.4	380.0
45°	400.4	371.9	345.0	321.9	302.6	288.6	282.2	280.5	280.0	281.1	284.8
47.5°	346.1	316.6	288.6	260.1	239.7	225.7	219.8	217.7	215.5	217.7	218.2
50°	303.7	273.0	243.5	215.0	193.5	181.1	173.6	170.4	169.8	169.8	170.9
52.5°	264.9	236.5	206.9	177.9	155.3	143.5	136.5	134.9	132.7	134.9	134.9
55°	228.4	199.9	170.9	143.5	124.7	112.3	105.9	103.7	102.6	104.3	104.3
57.5°	188.6	164.4	137.6	112.9	94.1	85.5	80.6	77.9	77.4	78.5	77.4
60°	154.8	134.4	111.2	88.7	74.2	65.0	61.3	60.2	59.1	60.2	60.2
62.5°	122.5	105.3	86.5	69.3	57.0	50.5	46.2	46.2	45.7	45.7	46.2
65°	90.8	77.4	64.0	49.4	39.8	34.9	31.7	31.7	31.2	31.7	31.2
67.5°	66.1	57.0	46.2	36.0	28.5	25.8	23.6	22.0	23.1	22.0	21.5
70°	48.4	40.8	33.3	27.4	22.0	19.4	17.7	17.2	16.1	16.1	16.1
72.5°	32.3	27.4	22.6	17.7	14.5	11.8	11.3	10.2	9.1	9.7	10.8
75°	21.5	18.3	16.1	12.9	9.7	9.7	6.5	6.5	5.4	6.5	4.8
77.5°	15.0	12.4	9.7	8.1	6.5	5.9	4.3	4.3	3.8	3.8	3.8
80°	10.8	9.1	7.0	5.9	4.3	4.3	3.8	3.2	2.7	2.7	3.2
82.5°	6.5	4.8	4.8	4.3	2.7	2.1	1.6	2.1	1.1	1.1	1.1
85°	3.8	3.2	2.7	1.6	1.1	1.1	0.5	0.0	0.5	0.5	0.0
87.5°	2.1	1.1	1.1	0.5	0.0	0.5	0.5	0.0	0.0	0.0	1.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7
2.5°	1107.1	1106.6	1107.7	1107.7	1110.9	1110.3	1111.9	1111.9	1110.9	1111.4	1113.6
5°	1110.9	1112.5	1115.7	1118.4	1123.2	1125.4	1128.1	1130.8	1131.3	1132.9	1134.5
7.5°	1110.9	1116.3	1120.0	1124.8	1131.3	1135.1	1141.0	1145.8	1148.0	1150.6	1153.9
10°	1108.7	1114.1	1121.1	1126.5	1134.5	1140.4	1146.3	1153.9	1157.1	1161.4	1165.7
12.5°	1104.4	1110.3	1117.8	1124.8	1134.0	1139.4	1146.9	1153.9	1158.7	1164.6	1169.5
15°	1098.0	1105.0	1111.9	1118.9	1128.6	1135.1	1142.0	1150.1	1154.9	1161.4	1165.7
17.5°	1087.8	1095.3	1101.7	1108.2	1117.3	1124.8	1131.3	1138.8	1143.7	1149.0	1154.9
20°	1075.4	1082.4	1089.4	1094.8	1103.9	1110.3	1117.3	1124.3	1128.1	1129.2	1138.3
22.5°	1059.8	1064.6	1070.0	1078.6	1084.0	1089.9	1096.4	1102.8	1106.6	1112.5	1115.7
25°	1034.0	1038.9	1044.8	1048.5	1055.0	1059.8	1066.3	1073.3	1075.4	1079.7	1082.9
27.5°	998.0	1000.7	1003.4	1006.6	1010.4	1013.1	1016.8	1020.1	1022.2	1024.3	1026.5
30°	941.0	941.0	941.0	938.9	940.5	942.1	942.6	942.1	942.1	941.6	941.6
32.5°	865.8	861.5	856.7	852.4	850.8	848.6	847.5	845.9	843.2	841.6	842.2
35°	764.2	754.6	748.6	743.3	739.0	735.8	734.1	732.5	732.0	729.8	727.7
37.5°	637.4	630.4	626.1	622.9	619.1	615.9	616.4	617.0	618.6	617.5	618.0
40°	503.0	501.4	503.0	499.3	498.2	499.3	502.0	505.7	507.9	510.0	513.8
42.5°	382.7	385.3	389.1	389.1	390.7	392.9	396.1	402.0	405.2	409.0	413.3
45°	288.1	291.3	296.1	297.7	298.8	301.5	305.3	310.1	312.2	315.5	319.2
47.5°	222.0	224.1	226.8	229.5	232.2	233.2	237.0	237.0	239.7	241.9	242.9
50°	173.1	175.2	177.3	179.0	180.0	181.7	182.7	184.3	184.9	186.0	186.5
52.5°	135.4	138.1	138.1	139.2	140.8	142.4	141.9	142.4	142.9	142.9	144.6
55°	105.9	105.9	107.5	107.5	108.6	108.0	108.6	108.6	108.6	108.6	109.1
57.5°	79.0	79.5	81.2	80.1	79.5	80.6	79.5	80.6	80.1	81.2	79.5
60°	60.7	60.7	61.3	61.3	61.8	61.8	61.8	61.3	61.3	60.7	60.7
62.5°	45.7	46.2	46.8	46.2	46.2	46.2	45.7	45.7	45.1	44.6	44.6
65°	30.6	30.1	31.2	30.1	30.6	30.6	30.1	30.6	29.0	29.6	29.0
67.5°	22.0	21.5	21.0	21.5	21.0	20.4	20.4	21.0	21.5	19.9	19.9
70°	14.5	15.0	14.5	15.0	15.6	15.6	15.0	14.5	15.0	14.0	14.5
72.5°	9.1	9.1	9.1	9.1	9.1	9.7	9.7	9.7	8.6	8.6	8.1
75°	4.3	5.9	4.8	4.3	5.9	5.9	5.4	5.4	4.8	4.8	4.8
77.5°	4.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.7	3.2	2.7
80°	2.1	2.1	2.1	1.6	2.1	2.1	2.7	2.1	2.1	1.6	2.7
82.5°	1.1	1.1	1.1	0.0	0.5	1.1	1.1	0.5	1.1	1.1	0.5
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: P244994

CATALOG NUMBER: LD8B20D010 ER8B20935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7
2.5°	1113.0	1112.5	1113.0	1113.6	1113.0	1112.5	1113.0	1113.6	1111.4	1110.9	1111.9
5°	1136.7	1136.7	1137.7	1138.3	1137.7	1136.7	1136.7	1134.5	1132.9	1131.3	1130.8
7.5°	1157.1	1158.2	1159.2	1159.8	1159.2	1158.2	1157.1	1153.9	1150.6	1148.0	1145.8
10°	1169.5	1171.1	1173.2	1174.3	1173.2	1171.1	1169.5	1165.7	1161.4	1157.1	1153.9
12.5°	1174.8	1176.4	1179.1	1178.6	1179.1	1176.4	1174.8	1169.5	1164.6	1158.7	1153.9
15°	1171.1	1173.2	1175.9	1177.0	1175.9	1173.2	1171.1	1165.7	1161.4	1154.9	1150.1
17.5°	1159.2	1162.5	1164.1	1165.7	1164.1	1162.5	1159.2	1154.9	1149.0	1143.7	1138.8
20°	1143.1	1145.3	1147.4	1148.0	1147.4	1145.3	1143.1	1138.3	1129.2	1128.1	1124.3
22.5°	1120.0	1121.6	1126.5	1124.8	1126.5	1121.6	1120.0	1115.7	1112.5	1106.6	1102.8
25°	1086.7	1088.3	1088.8	1089.4	1088.8	1088.3	1086.7	1082.9	1079.7	1075.4	1073.3
27.5°	1029.2	1029.2	1030.2	1030.8	1030.2	1029.2	1029.2	1026.5	1024.3	1022.2	1020.1
30°	942.1	942.1	942.1	944.8	942.1	942.1	942.1	941.6	941.6	942.1	942.1
32.5°	841.6	840.5	839.5	840.5	839.5	840.5	841.6	842.2	841.6	843.2	845.9
35°	727.7	727.1	728.8	726.6	728.8	727.1	727.7	727.7	729.8	732.0	732.5
37.5°	618.6	617.5	619.7	617.5	619.7	617.5	618.6	618.0	617.5	618.6	617.0
40°	514.9	515.9	515.9	520.2	515.9	515.9	514.9	513.8	510.0	507.9	505.7
42.5°	415.4	418.7	417.6	420.8	417.6	418.7	415.4	413.3	409.0	405.2	402.0
45°	321.4	323.5	323.5	324.6	323.5	323.5	321.4	319.2	315.5	312.2	310.1
47.5°	246.7	246.7	246.7	247.2	246.7	246.7	246.7	242.9	241.9	239.7	237.0
50°	187.6	188.1	188.6	189.2	188.6	188.1	187.6	186.5	186.0	184.9	184.3
52.5°	144.0	144.6	143.5	144.6	143.5	144.6	144.0	144.6	142.9	142.9	142.4
55°	109.1	108.6	109.1	109.6	109.1	108.6	109.1	109.1	108.6	108.6	108.6
57.5°	80.1	79.0	79.0	79.0	79.0	79.0	80.1	79.5	81.2	80.1	80.6
60°	59.7	60.2	60.2	60.7	60.2	60.2	59.7	60.7	60.7	61.3	61.3
62.5°	44.1	45.7	44.6	45.7	44.6	45.7	44.1	44.6	44.6	45.1	45.7
65°	28.5	28.5	28.5	29.0	28.5	28.5	28.5	29.0	29.6	29.0	30.6
67.5°	19.4	19.9	21.0	20.4	21.0	19.9	19.4	19.9	19.9	21.5	21.0
70°	15.6	14.0	14.0	15.6	14.0	14.0	15.6	14.5	14.0	15.0	14.5
72.5°	9.1	8.1	9.1	9.1	9.1	8.1	9.1	8.1	8.6	8.6	9.7
75°	4.8	4.3	3.8	5.4	3.8	4.3	4.8	4.8	4.8	4.8	5.4
77.5°	3.2	2.7	3.8	3.8	3.8	2.7	3.2	2.7	3.2	2.7	3.2
80°	1.6	2.1	1.6	2.7	1.6	2.1	1.6	2.7	1.6	2.1	2.1
82.5°	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.5	1.1	1.1	0.5
85°	0.0	1.1	0.5	0.5	0.5	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.5	0.0	0.0	0.5	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: P244994

CATALOG NUMBER: LD8B20D010 ER8B20935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7
2.5°	1111.9	1110.3	1110.9	1107.7	1107.7	1106.6	1107.1	1104.4	1103.4	1102.3	1103.9
5°	1128.1	1125.4	1123.2	1118.4	1115.7	1112.5	1110.9	1106.6	1102.8	1099.6	1099.0
7.5°	1141.0	1135.1	1131.3	1124.8	1120.0	1116.3	1110.9	1105.0	1100.1	1095.8	1092.6
10°	1146.3	1140.4	1134.5	1126.5	1121.1	1114.1	1108.7	1101.2	1094.8	1088.8	1085.1
12.5°	1146.9	1139.4	1134.0	1124.8	1117.8	1110.3	1104.4	1095.8	1088.3	1082.4	1076.5
15°	1142.0	1135.1	1128.6	1118.9	1111.9	1105.0	1098.0	1088.8	1081.9	1074.9	1070.6
17.5°	1131.3	1124.8	1117.3	1108.2	1101.7	1095.3	1087.8	1080.2	1072.2	1064.6	1059.3
20°	1117.3	1110.3	1103.9	1094.8	1089.4	1082.4	1075.4	1067.3	1060.9	1053.4	1047.5
22.5°	1096.4	1089.9	1084.0	1078.6	1070.0	1064.6	1059.8	1050.7	1044.2	1037.2	1030.8
25°	1066.3	1059.8	1055.0	1048.5	1044.8	1038.9	1034.0	1026.0	1020.1	1013.6	1008.2
27.5°	1016.8	1013.1	1010.4	1006.6	1003.4	1000.7	998.0	991.6	987.3	981.4	976.0
30°	942.6	942.1	940.5	938.9	941.0	941.0	941.0	940.0	936.2	931.9	928.1
32.5°	847.5	848.6	850.8	852.4	856.7	861.5	865.8	867.9	867.9	865.3	863.7
35°	734.1	735.8	739.0	743.3	748.6	754.6	764.2	766.4	768.0	768.0	765.8
37.5°	616.4	615.9	619.1	622.9	626.1	630.4	637.4	639.0	641.7	640.6	638.5
40°	502.0	499.3	498.2	499.3	503.0	501.4	503.0	502.0	502.0	498.2	498.2
42.5°	396.1	392.9	390.7	389.1	389.1	385.3	382.7	380.0	378.4	375.7	375.1
45°	305.3	301.5	298.8	297.7	296.1	291.3	288.1	284.8	281.1	280.0	280.5
47.5°	237.0	233.2	232.2	229.5	226.8	224.1	222.0	218.2	217.7	215.5	217.7
50°	182.7	181.7	180.0	179.0	177.3	175.2	173.1	170.9	169.8	169.8	170.4
52.5°	141.9	142.4	140.8	139.2	138.1	138.1	135.4	134.9	134.9	132.7	134.9
55°	108.6	108.0	108.6	107.5	107.5	105.9	105.9	104.3	104.3	102.6	103.7
57.5°	79.5	80.6	79.5	80.1	81.2	79.5	79.0	77.4	78.5	77.4	77.9
60°	61.8	61.8	61.8	61.3	61.3	60.7	60.7	60.2	60.2	59.1	60.2
62.5°	45.7	46.2	46.2	46.2	46.8	46.2	45.7	46.2	45.7	45.7	46.2
65°	30.1	30.6	30.6	30.1	31.2	30.1	30.6	31.2	31.7	31.2	31.7
67.5°	20.4	20.4	21.0	21.5	21.0	21.5	22.0	21.5	22.0	23.1	22.0
70°	15.0	15.6	15.6	15.0	14.5	15.0	14.5	16.1	16.1	16.1	17.2
72.5°	9.7	9.7	9.1	9.1	9.1	9.1	9.1	10.8	9.7	9.1	10.2
75°	5.4	5.9	5.9	4.3	4.8	5.9	4.3	4.8	6.5	5.4	6.5
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.3	3.8	3.8	3.8	4.3
80°	2.7	2.1	2.1	1.6	2.1	2.1	2.1	3.2	2.7	2.7	3.2
82.5°	1.1	1.1	0.5	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	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: P244994

CATALOG NUMBER: LD8B20D010 ER8B20935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7
2.5°	1099.6	1099.6	1099.0	1098.0	1095.8	1095.8	1095.3	1093.7	1092.6	1092.1	1092.1
5°	1094.2	1092.1	1089.9	1084.0	1084.0	1082.9	1079.7	1077.5	1076.5	1073.8	1072.7
7.5°	1089.4	1082.9	1079.2	1075.4	1070.6	1068.4	1064.6	1063.0	1059.3	1056.6	1055.0
10°	1077.5	1073.3	1068.4	1062.5	1058.7	1054.4	1050.1	1046.9	1042.1	1039.4	1037.2
12.5°	1069.5	1063.0	1058.7	1052.3	1045.8	1042.1	1036.2	1032.4	1027.6	1022.2	1019.0
15°	1062.0	1055.0	1049.1	1042.1	1035.1	1030.8	1023.8	1019.5	1012.5	1007.2	1003.4
17.5°	1050.7	1044.8	1038.3	1029.7	1023.3	1017.9	1010.4	1005.0	998.5	991.6	987.8
20°	1038.9	1031.9	1025.4	1016.8	1010.4	1003.9	996.4	990.5	983.0	976.5	972.2
22.5°	1023.3	1015.2	1009.8	1001.2	993.7	986.7	979.7	972.8	965.8	960.4	955.5
25°	1000.7	992.1	986.2	979.2	972.2	966.9	958.2	954.0	947.0	942.1	937.3
27.5°	968.4	962.0	956.6	949.6	943.7	939.4	933.0	928.7	922.8	918.5	914.7
30°	921.2	915.8	910.9	904.0	899.7	895.9	890.0	886.2	881.9	877.1	876.0
32.5°	857.7	853.4	848.6	843.8	840.5	838.4	833.5	831.4	827.1	824.4	821.7
35°	762.1	758.3	755.6	753.5	752.4	752.9	751.9	754.0	755.1	754.6	755.1
37.5°	636.9	634.7	635.8	637.4	642.8	649.8	656.2	665.9	672.3	678.8	684.7
40°	497.1	498.7	503.0	512.7	526.7	542.3	556.8	575.1	593.3	606.2	618.0
42.5°	375.1	380.0	390.7	404.7	425.7	448.8	471.3	498.2	520.2	541.7	556.8
45°	282.2	288.6	302.6	321.9	345.0	371.9	400.4	430.5	456.8	478.9	495.5
47.5°	219.8	225.7	239.7	260.1	288.6	316.6	346.1	377.3	404.7	426.2	440.7
50°	173.6	181.1	193.5	215.0	243.5	273.0	303.7	334.3	360.1	378.4	391.3
52.5°	136.5	143.5	155.3	177.9	206.9	236.5	264.9	295.1	317.6	335.4	344.0
55°	105.9	112.3	124.7	143.5	170.9	199.9	228.4	254.2	275.2	288.1	296.1
57.5°	80.6	85.5	94.1	112.9	137.6	164.4	188.6	214.4	230.6	239.7	245.1
60°	61.3	65.0	74.2	88.7	111.2	134.4	154.8	174.1	187.0	194.6	199.9
62.5°	46.2	50.5	57.0	69.3	86.5	105.3	122.5	137.0	147.8	152.6	156.4
65°	31.7	34.9	39.8	49.4	64.0	77.4	90.8	101.6	108.6	113.9	116.1
67.5°	23.6	25.8	28.5	36.0	46.2	57.0	66.1	73.6	81.2	83.3	87.1
70°	17.7	19.4	22.0	27.4	33.3	40.8	48.4	52.7	58.0	61.8	62.9
72.5°	11.3	11.8	14.5	17.7	22.6	27.4	32.3	36.0	39.2	41.4	42.5
75°	6.5	9.7	9.7	12.9	16.1	18.3	21.5	24.2	25.8	27.4	27.4
77.5°	4.3	5.9	6.5	8.1	9.7	12.4	15.0	16.7	18.3	18.8	18.8
80°	3.8	4.3	4.3	5.9	7.0	9.1	10.8	11.3	12.4	12.9	14.0
82.5°	1.6	2.1	2.7	4.3	4.8	4.8	6.5	7.0	8.1	8.6	8.6
85°	0.5	1.1	1.1	1.6	2.7	3.2	3.8	4.3	4.8	4.8	5.4
87.5°	0.5	0.5	0.0	0.5	1.1	1.1	2.1	2.1	2.1	3.2	3.2
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: P244994

CATALOG NUMBER: LD8B20D010 ER8B20935 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7	1100.7
2.5°	1091.0	1091.5	1089.4	1088.8	1087.8	1088.3	1089.4
5°	1071.1	1071.6	1069.5	1067.3	1067.3	1066.8	1067.3
7.5°	1052.3	1052.8	1049.6	1048.5	1046.4	1046.9	1046.9
10°	1033.5	1033.5	1028.7	1028.1	1026.5	1026.0	1026.0
12.5°	1015.2	1013.6	1009.8	1007.7	1008.8	1005.5	1005.5
15°	999.1	996.4	991.6	989.9	987.3	986.2	986.2
17.5°	982.4	980.3	976.0	972.8	969.5	969.0	969.5
20°	966.3	964.2	958.8	956.6	954.0	954.0	952.9
22.5°	950.2	948.0	943.2	941.6	937.8	937.8	938.4
25°	933.5	931.9	926.5	925.5	924.9	922.8	923.8
27.5°	910.9	909.9	905.6	904.0	901.8	901.3	902.3
30°	869.6	867.9	864.7	863.1	859.4	859.9	861.0
32.5°	818.0	815.8	811.5	809.9	806.7	805.6	806.1
35°	753.5	751.9	748.1	748.1	744.9	743.8	744.9
37.5°	687.9	689.5	687.9	689.5	687.9	687.4	687.9
40°	626.1	632.0	633.1	639.0	636.9	640.1	639.5
42.5°	567.0	576.7	580.4	585.3	584.2	586.3	588.0
45°	507.3	515.4	519.2	522.4	522.9	524.0	524.5
47.5°	450.9	457.4	457.9	461.6	461.1	461.1	462.7
50°	398.2	402.5	403.6	406.3	404.2	403.1	403.6
52.5°	349.3	353.6	352.5	353.6	351.0	349.9	350.4
55°	299.3	301.5	301.5	301.5	298.3	298.3	298.3
57.5°	248.3	248.8	247.8	248.3	247.8	244.5	244.0
60°	201.5	201.5	201.0	201.5	199.9	198.3	198.3
62.5°	157.5	158.5	160.7	158.5	157.5	158.5	156.9
65°	117.7	119.9	119.3	120.4	119.9	119.9	118.8
67.5°	88.7	89.2	89.7	90.3	90.3	90.3	90.3
70°	65.0	66.7	66.1	66.1	66.1	66.1	69.3
72.5°	43.5	45.7	45.1	46.2	46.2	47.3	46.2
75°	29.6	31.7	30.6	32.3	31.7	30.6	33.3
77.5°	19.9	21.0	21.5	22.0	21.5	21.0	21.5
80°	14.0	15.0	14.5	15.0	15.0	15.0	15.6
82.5°	8.6	10.2	9.7	10.2	9.7	10.2	10.2
85°	5.9	6.5	5.4	6.5	5.9	5.9	7.0
87.5°	3.8	3.2	3.2	3.8	3.2	3.8	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)