

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: P245858

Luminaire Tested: **LD8B20D010 ER8B20935 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245858
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1731.0 lumens
Efficiency: N/A
Efficacy: 81.3 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

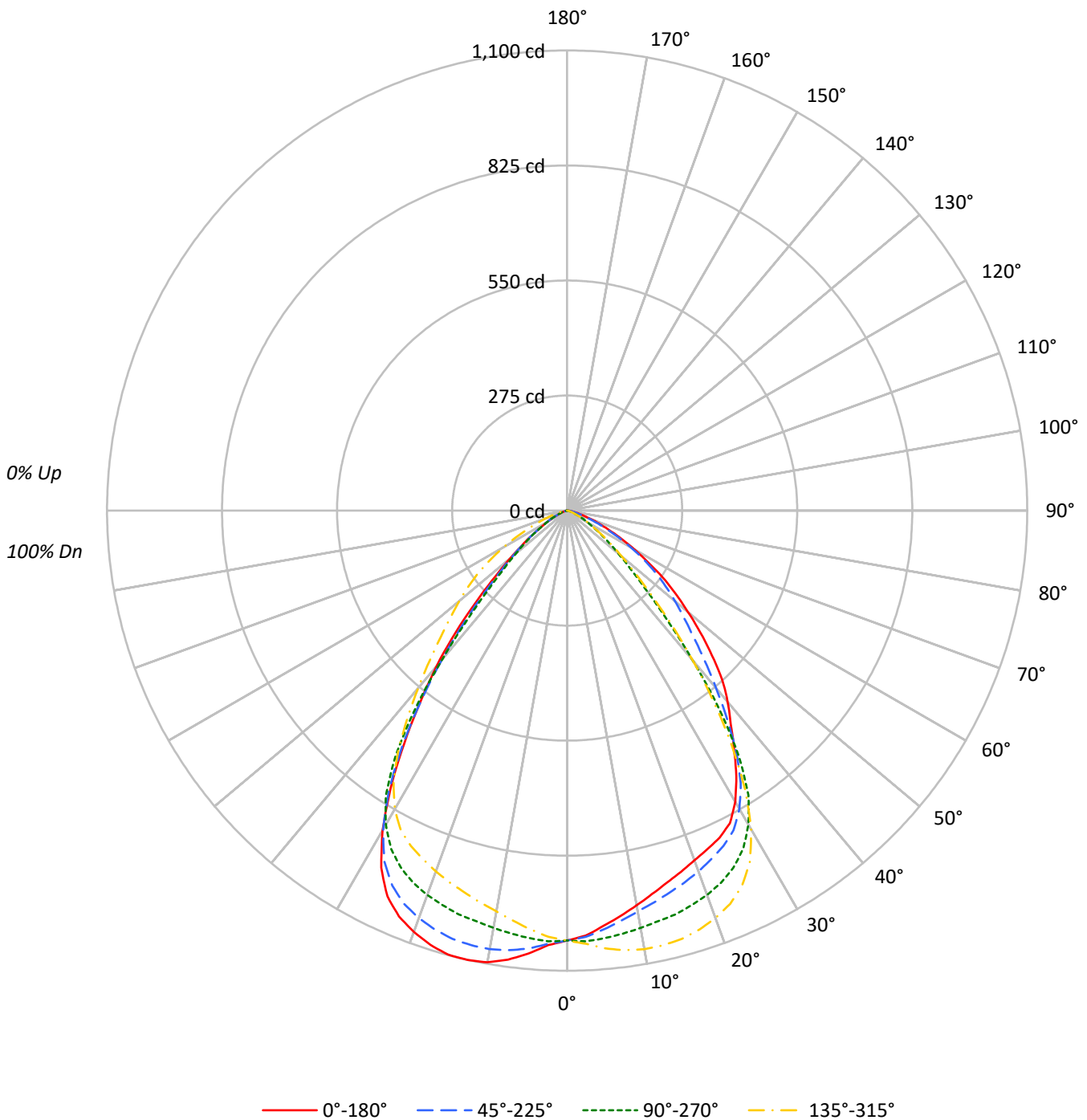
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	31687	31687	31687	31687
5°	30846	31762	32898	31762
10°	29994	31722	34330	31722
15°	29396	31911	35081	31911
20°	29196	32093	35171	32093
25°	29349	32027	34606	32027
30°	28621	30857	31409	30857
35°	26182	26916	25538	26916
40°	24036	18722	19551	18722
45°	21355	11421	13218	11421
50°	18076	7632	8472	7632
55°	14973	5204	5505	5204
60°	11422	3466	3497	3466
65°	8092	2160	1977	2160
70°	5833	1443	1316	1443
75°	3705	715	596	715
80°	2593	533	444	533
85°	2300	0	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	5.7
10°-20°	283.2	16.4
20°-30°	428.9	24.8
30°-40°	429.9	24.8
40°-50°	269.9	15.6
50°-60°	143.9	8.3
60°-70°	59.1	3.4
70°-80°	15.6	0.9
80°-90°	2.6	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°	810.0	46.8
0°-40°	1239.8	71.6
0°-60°	1653.6	95.5
0°-90°	1731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1731.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1028	1028	1028	1028	1028	
5°	996	1026	1063	1026	996	94
15°	921	1000	1099	1000	921	260
25°	863	941	1017	941	863	396
35°	696	715	678	715	696	436
45°	490	262	303	262	490	377
55°	278	97	102	97	278	248
65°	111	30	27	30	111	115
75°	31	6	5	6	31	35
85°	6	0	0	0	6	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°	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6
2.5°	1017.1	1016.1	1015.6	1016.6	1017.1	1019.1	1018.6	1019.6	1019.6	1020.1	1021.1
5°	996.5	996.0	996.5	996.5	998.5	1000.5	1000.0	1001.6	1002.5	1005.1	1006.1
7.5°	977.5	977.5	977.0	979.0	980.0	983.0	982.5	985.0	986.5	989.0	992.5
10°	957.9	957.9	958.4	959.9	960.4	964.9	964.9	968.4	970.4	972.9	977.5
12.5°	938.8	938.8	941.8	940.8	942.8	946.3	947.9	951.4	954.4	959.4	963.9
15°	920.8	920.8	921.8	924.3	925.8	930.3	932.8	936.8	940.3	945.4	951.9
17.5°	905.2	904.7	905.2	908.2	911.2	915.2	917.2	922.3	925.8	932.3	938.3
20°	889.7	890.7	890.7	893.2	895.2	900.2	902.2	907.7	911.7	917.7	924.8
22.5°	876.1	875.6	875.6	879.1	880.6	885.1	887.1	892.2	896.7	901.7	908.2
25°	862.6	861.5	863.6	864.1	865.1	870.1	871.6	875.1	879.6	884.1	890.7
27.5°	842.5	841.5	842.0	844.0	845.5	849.5	850.5	854.0	857.5	861.5	867.1
30°	803.8	802.8	802.4	805.9	807.4	810.4	811.9	817.9	818.9	823.4	827.4
32.5°	752.7	752.2	753.2	756.2	757.7	761.7	763.7	767.2	769.7	772.2	776.2
35°	695.5	694.5	695.5	698.5	698.5	702.0	703.5	705.0	704.5	705.0	704.0
37.5°	642.3	641.8	642.3	643.8	642.3	643.8	642.3	639.3	633.8	627.7	621.7
40°	597.1	597.6	594.6	596.6	591.1	590.1	584.6	577.0	566.0	554.0	536.9
42.5°	549.0	547.4	545.4	546.4	541.9	538.4	529.4	519.9	505.8	485.7	465.1
45°	489.7	489.2	488.2	487.7	484.7	481.2	473.7	462.6	447.1	426.5	401.9
47.5°	432.0	430.5	430.5	431.0	427.5	427.0	421.0	411.5	397.9	377.8	352.2
50°	376.8	376.3	377.3	379.3	376.8	375.8	371.8	365.3	353.3	336.2	312.1
52.5°	327.2	326.7	327.7	330.2	329.2	330.2	326.2	321.1	313.1	296.5	275.5
55°	278.5	278.5	278.5	281.5	281.5	281.5	279.5	276.5	269.0	256.9	237.4
57.5°	227.8	228.3	231.3	231.8	231.3	232.3	231.8	228.8	223.8	215.3	200.2
60°	185.2	185.2	186.7	188.2	187.7	188.2	188.2	186.7	181.6	174.6	162.6
62.5°	146.5	148.0	147.0	148.0	150.0	148.0	147.0	146.0	142.5	138.0	127.9
65°	110.9	111.9	111.9	112.4	111.4	111.9	109.9	108.4	106.4	101.4	94.8
67.5°	84.3	84.3	84.3	84.3	83.8	83.3	82.8	81.3	77.8	75.8	68.7
70°	64.7	61.7	61.7	61.7	61.7	62.2	60.7	58.7	57.7	54.2	49.2
72.5°	43.1	44.2	43.1	43.1	42.2	42.6	40.6	39.6	38.6	36.6	33.6
75°	31.1	28.6	29.6	30.1	28.6	29.6	27.6	25.6	25.6	24.1	22.6
77.5°	20.1	19.6	20.1	20.6	20.1	19.6	18.6	17.6	17.6	17.1	15.6
80°	14.6	14.0	14.0	14.0	13.5	14.0	13.1	13.1	12.0	11.5	10.5
82.5°	9.5	9.5	9.0	9.5	9.0	9.5	8.0	8.0	8.0	7.5	6.5
85°	6.5	5.5	5.5	6.0	5.0	6.0	5.5	5.0	4.5	4.5	4.0
87.5°	3.0	3.5	3.0	3.5	3.0	3.0	3.5	3.0	3.0	2.0	2.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6
2.5°	1022.6	1023.1	1023.1	1025.1	1026.1	1026.6	1026.6	1030.7	1029.1	1030.2	1031.2
5°	1008.1	1011.1	1012.1	1012.1	1017.6	1019.6	1021.6	1026.1	1026.6	1029.6	1033.2
7.5°	994.0	997.5	999.6	1004.1	1007.6	1011.1	1017.1	1020.1	1023.1	1027.1	1031.6
10°	980.5	984.5	988.5	992.0	997.5	1002.1	1006.1	1013.1	1016.6	1022.1	1028.1
12.5°	967.4	972.9	976.5	982.5	988.5	992.5	998.5	1005.1	1010.6	1016.1	1023.1
15°	955.9	962.4	966.4	972.9	979.5	985.0	991.5	999.6	1003.6	1010.1	1016.6
17.5°	943.3	950.4	955.4	961.4	969.4	975.4	981.0	989.0	994.0	1001.0	1008.6
20°	930.3	937.3	943.3	949.4	957.4	963.4	969.9	978.0	983.5	990.5	996.5
22.5°	914.7	921.3	927.8	934.8	942.8	947.9	955.4	962.4	968.4	975.0	981.0
25°	894.7	902.7	907.7	914.2	920.8	926.3	934.3	941.3	946.3	952.4	957.9
27.5°	871.1	877.1	881.1	886.6	893.2	898.2	904.2	911.2	916.3	921.8	925.8
30°	830.9	836.5	840.0	844.0	850.5	855.0	860.1	866.6	870.1	874.1	877.6
32.5°	778.2	782.8	784.8	787.8	792.3	796.8	800.8	806.4	807.9	810.4	810.4
35°	702.0	703.0	702.5	703.5	705.5	708.0	711.5	715.0	717.0	717.0	715.5
37.5°	612.7	606.7	600.1	595.1	593.6	592.6	594.6	596.1	598.1	599.1	596.6
40°	519.9	506.3	491.7	478.7	469.7	465.7	464.1	465.1	465.1	468.7	468.7
42.5°	440.1	419.0	397.4	377.8	364.8	354.8	350.2	350.2	350.7	353.3	354.8
45°	373.8	347.2	322.1	300.6	282.5	269.4	263.4	261.9	261.4	262.4	265.9
47.5°	323.1	295.6	269.4	242.9	223.8	210.7	205.2	203.2	201.2	203.2	203.7
50°	283.5	254.9	227.3	200.7	180.6	169.1	162.1	159.1	158.6	158.6	159.6
52.5°	247.4	220.8	193.2	166.1	145.0	134.0	127.5	125.9	123.9	125.9	125.9
55°	213.2	186.7	159.6	134.0	116.4	104.9	98.8	96.8	95.8	97.3	97.3
57.5°	176.1	153.5	128.5	105.4	87.8	79.8	75.3	72.8	72.2	73.3	72.2
60°	144.5	125.4	103.9	82.8	69.3	60.7	57.2	56.2	55.2	56.2	56.2
62.5°	114.4	98.4	80.8	64.7	53.2	47.2	43.1	43.1	42.6	42.6	43.1
65°	84.8	72.2	59.7	46.2	37.1	32.6	29.6	29.6	29.1	29.6	29.1
67.5°	61.7	53.2	43.1	33.6	26.6	24.1	22.1	20.6	21.6	20.6	20.1
70°	45.2	38.1	31.1	25.6	20.6	18.1	16.6	16.0	15.1	15.1	15.1
72.5°	30.1	25.6	21.1	16.6	13.5	11.0	10.5	9.5	8.5	9.0	10.0
75°	20.1	17.1	15.1	12.0	9.0	9.0	6.0	6.0	5.0	6.0	4.5
77.5°	14.0	11.5	9.0	7.5	6.0	5.5	4.0	4.0	3.5	3.5	3.5
80°	10.0	8.5	6.5	5.5	4.0	4.0	3.5	3.0	2.5	2.5	3.0
82.5°	6.0	4.5	4.5	4.0	2.5	2.0	1.5	2.0	1.0	1.0	1.0
85°	3.5	3.0	2.5	1.5	1.0	1.0	0.5	0.0	0.5	0.5	0.0
87.5°	2.0	1.0	1.0	0.5	0.0	0.5	0.5	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°	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6
2.5°	1033.7	1033.2	1034.2	1034.2	1037.2	1036.7	1038.2	1038.2	1037.2	1037.7	1039.7
5°	1037.2	1038.7	1041.7	1044.2	1048.7	1050.7	1053.2	1055.7	1056.2	1057.8	1059.3
7.5°	1037.2	1042.2	1045.7	1050.2	1056.2	1059.8	1065.3	1069.8	1071.8	1074.3	1077.3
10°	1035.2	1040.2	1046.7	1051.7	1059.3	1064.8	1070.3	1077.3	1080.3	1084.3	1088.4
12.5°	1031.2	1036.7	1043.7	1050.2	1058.7	1063.8	1070.8	1077.3	1081.8	1087.3	1091.9
15°	1025.1	1031.6	1038.2	1044.7	1053.7	1059.8	1066.3	1073.8	1078.3	1084.3	1088.4
17.5°	1015.6	1022.6	1028.7	1034.7	1043.2	1050.2	1056.2	1063.3	1067.8	1072.8	1078.3
20°	1004.1	1010.6	1017.1	1022.1	1030.7	1036.7	1043.2	1049.7	1053.2	1054.2	1062.8
22.5°	989.5	994.0	999.0	1007.1	1012.1	1017.6	1023.6	1029.6	1033.2	1038.7	1041.7
25°	965.4	969.9	975.4	979.0	985.0	989.5	995.5	1002.1	1004.1	1008.1	1011.1
27.5°	931.8	934.3	936.8	939.8	943.3	945.9	949.4	952.4	954.4	956.4	958.4
30°	878.6	878.6	878.6	876.6	878.1	879.6	880.1	879.6	879.6	879.1	879.1
32.5°	808.4	804.4	799.8	795.8	794.3	792.3	791.3	789.8	787.3	785.8	786.3
35°	713.5	704.5	699.0	694.0	690.0	686.9	685.4	683.9	683.4	681.4	679.4
37.5°	595.1	588.6	584.6	581.6	578.1	575.0	575.5	576.0	577.5	576.5	577.0
40°	469.7	468.2	469.7	466.2	465.1	466.2	468.7	472.2	474.2	476.2	479.7
42.5°	357.3	359.8	363.3	363.3	364.8	366.8	369.8	375.3	378.3	381.8	385.9
45°	269.0	272.0	276.5	278.0	279.0	281.5	285.0	289.5	291.5	294.5	298.1
47.5°	207.2	209.2	211.7	214.3	216.8	217.8	221.3	221.3	223.8	225.8	226.8
50°	161.6	163.6	165.6	167.1	168.1	169.6	170.6	172.1	172.6	173.6	174.1
52.5°	126.4	129.0	129.0	130.0	131.5	133.0	132.5	133.0	133.5	133.5	135.0
55°	98.8	98.8	100.4	100.4	101.4	100.9	101.4	101.4	101.4	101.4	101.9
57.5°	73.8	74.3	75.8	74.8	74.3	75.3	74.3	75.3	74.8	75.8	74.3
60°	56.7	56.7	57.2	57.2	57.7	57.7	57.7	57.2	57.2	56.7	56.7
62.5°	42.6	43.1	43.7	43.1	43.1	43.1	42.6	42.6	42.2	41.6	41.6
65°	28.6	28.1	29.1	28.1	28.6	28.6	28.1	28.6	27.1	27.6	27.1
67.5°	20.6	20.1	19.6	20.1	19.6	19.1	19.1	19.6	20.1	18.6	18.6
70°	13.5	14.0	13.5	14.0	14.6	14.6	14.0	13.5	14.0	13.1	13.5
72.5°	8.5	8.5	8.5	8.5	8.5	9.0	9.0	9.0	8.0	8.0	7.5
75°	4.0	5.5	4.5	4.0	5.5	5.5	5.0	5.0	4.5	4.5	4.5
77.5°	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5	3.0	2.5
80°	2.0	2.0	2.0	1.5	2.0	2.0	2.5	2.0	2.0	1.5	2.5
82.5°	1.0	1.0	1.0	0.0	0.5	1.0	1.0	0.5	1.0	1.0	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



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CATALOG NUMBER: LD8B20D010 ER8B20935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6
2.5°	1039.2	1038.7	1039.2	1039.7	1039.2	1038.7	1039.2	1039.7	1037.7	1037.2	1038.2
5°	1061.3	1061.3	1062.3	1062.8	1062.3	1061.3	1061.3	1059.3	1057.8	1056.2	1055.7
7.5°	1080.3	1081.3	1082.3	1082.8	1082.3	1081.3	1080.3	1077.3	1074.3	1071.8	1069.8
10°	1091.9	1093.4	1095.4	1096.4	1095.4	1093.4	1091.9	1088.4	1084.3	1080.3	1077.3
12.5°	1096.9	1098.4	1100.9	1100.4	1100.9	1098.4	1096.9	1091.9	1087.3	1081.8	1077.3
15°	1093.4	1095.4	1097.9	1098.9	1097.9	1095.4	1093.4	1088.4	1084.3	1078.3	1073.8
17.5°	1082.3	1085.3	1086.9	1088.4	1086.9	1085.3	1082.3	1078.3	1072.8	1067.8	1063.3
20°	1067.3	1069.3	1071.3	1071.8	1071.3	1069.3	1067.3	1062.8	1054.2	1053.2	1049.7
22.5°	1045.7	1047.2	1051.7	1050.2	1051.7	1047.2	1045.7	1041.7	1038.7	1033.2	1029.6
25°	1014.6	1016.1	1016.6	1017.1	1016.6	1016.1	1014.6	1011.1	1008.1	1004.1	1002.1
27.5°	960.9	960.9	961.9	962.4	961.9	960.9	960.9	958.4	956.4	954.4	952.4
30°	879.6	879.6	879.6	882.1	879.6	879.6	879.6	879.1	879.1	879.6	879.6
32.5°	785.8	784.8	783.8	784.8	783.8	784.8	785.8	786.3	785.8	787.3	789.8
35°	679.4	678.9	680.4	678.4	680.4	678.9	679.4	679.4	681.4	683.4	683.9
37.5°	577.5	576.5	578.5	576.5	578.5	576.5	577.5	577.0	576.5	577.5	576.0
40°	480.7	481.7	481.7	485.7	481.7	481.7	480.7	479.7	476.2	474.2	472.2
42.5°	387.9	390.9	389.9	392.9	389.9	390.9	387.9	385.9	381.8	378.3	375.3
45°	300.1	302.1	302.1	303.1	302.1	302.1	300.1	298.1	294.5	291.5	289.5
47.5°	230.3	230.3	230.3	230.8	230.3	230.3	230.3	226.8	225.8	223.8	221.3
50°	175.1	175.6	176.1	176.6	176.1	175.6	175.1	174.1	173.6	172.6	172.1
52.5°	134.5	135.0	134.0	135.0	134.0	135.0	134.5	135.0	133.5	133.5	133.0
55°	101.9	101.4	101.9	102.4	101.9	101.4	101.9	101.9	101.4	101.4	101.4
57.5°	74.8	73.8	73.8	73.8	73.8	73.8	74.8	74.3	75.8	74.8	75.3
60°	55.7	56.2	56.2	56.7	56.2	56.2	55.7	56.7	56.7	57.2	57.2
62.5°	41.1	42.6	41.6	42.6	41.6	42.6	41.1	41.6	41.6	42.2	42.6
65°	26.6	26.6	26.6	27.1	26.6	26.6	26.6	27.1	27.6	27.1	28.6
67.5°	18.1	18.6	19.6	19.1	19.6	18.6	18.1	18.6	18.6	20.1	19.6
70°	14.6	13.1	13.1	14.6	13.1	13.1	14.6	13.5	13.1	14.0	13.5
72.5°	8.5	7.5	8.5	8.5	8.5	7.5	8.5	7.5	8.0	8.0	9.0
75°	4.5	4.0	3.5	5.0	3.5	4.0	4.5	4.5	4.5	4.5	5.0
77.5°	3.0	2.5	3.5	3.5	3.5	2.5	3.0	2.5	3.0	2.5	3.0
80°	1.5	2.0	1.5	2.5	1.5	2.0	1.5	2.5	1.5	2.0	2.0
82.5°	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.5	1.0	1.0	0.5
85°	0.0	1.0	0.5	0.5	0.5	1.0	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: P245858

CATALOG NUMBER: LD8B20D010 ER8B20935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6
2.5°	1038.2	1036.7	1037.2	1034.2	1034.2	1033.2	1033.7	1031.2	1030.2	1029.1	1030.7
5°	1053.2	1050.7	1048.7	1044.2	1041.7	1038.7	1037.2	1033.2	1029.6	1026.6	1026.1
7.5°	1065.3	1059.8	1056.2	1050.2	1045.7	1042.2	1037.2	1031.6	1027.1	1023.1	1020.1
10°	1070.3	1064.8	1059.3	1051.7	1046.7	1040.2	1035.2	1028.1	1022.1	1016.6	1013.1
12.5°	1070.8	1063.8	1058.7	1050.2	1043.7	1036.7	1031.2	1023.1	1016.1	1010.6	1005.1
15°	1066.3	1059.8	1053.7	1044.7	1038.2	1031.6	1025.1	1016.6	1010.1	1003.6	999.6
17.5°	1056.2	1050.2	1043.2	1034.7	1028.7	1022.6	1015.6	1008.6	1001.0	994.0	989.0
20°	1043.2	1036.7	1030.7	1022.1	1017.1	1010.6	1004.1	996.5	990.5	983.5	978.0
22.5°	1023.6	1017.6	1012.1	1007.1	999.0	994.0	989.5	981.0	975.0	968.4	962.4
25°	995.5	989.5	985.0	979.0	975.4	969.9	965.4	957.9	952.4	946.3	941.3
27.5°	949.4	945.9	943.3	939.8	936.8	934.3	931.8	925.8	921.8	916.3	911.2
30°	880.1	879.6	878.1	876.6	878.6	878.6	878.6	877.6	874.1	870.1	866.6
32.5°	791.3	792.3	794.3	795.8	799.8	804.4	808.4	810.4	810.4	807.9	806.4
35°	685.4	686.9	690.0	694.0	699.0	704.5	713.5	715.5	717.0	717.0	715.0
37.5°	575.5	575.0	578.1	581.6	584.6	588.6	595.1	596.6	599.1	598.1	596.1
40°	468.7	466.2	465.1	466.2	469.7	468.2	469.7	468.7	468.7	465.1	465.1
42.5°	369.8	366.8	364.8	363.3	363.3	359.8	357.3	354.8	353.3	350.7	350.2
45°	285.0	281.5	279.0	278.0	276.5	272.0	269.0	265.9	262.4	261.4	261.9
47.5°	221.3	217.8	216.8	214.3	211.7	209.2	207.2	203.7	203.2	201.2	203.2
50°	170.6	169.6	168.1	167.1	165.6	163.6	161.6	159.6	158.6	158.6	159.1
52.5°	132.5	133.0	131.5	130.0	129.0	129.0	126.4	125.9	125.9	123.9	125.9
55°	101.4	100.9	101.4	100.4	100.4	98.8	98.8	97.3	97.3	95.8	96.8
57.5°	74.3	75.3	74.3	74.8	75.8	74.3	73.8	72.2	73.3	72.2	72.8
60°	57.7	57.7	57.7	57.2	57.2	56.7	56.7	56.2	56.2	55.2	56.2
62.5°	42.6	43.1	43.1	43.1	43.7	43.1	42.6	43.1	42.6	42.6	43.1
65°	28.1	28.6	28.6	28.1	29.1	28.1	28.6	29.1	29.6	29.1	29.6
67.5°	19.1	19.1	19.6	20.1	19.6	20.1	20.6	20.1	20.6	21.6	20.6
70°	14.0	14.6	14.6	14.0	13.5	14.0	13.5	15.1	15.1	15.1	16.0
72.5°	9.0	9.0	8.5	8.5	8.5	8.5	8.5	10.0	9.0	8.5	9.5
75°	5.0	5.5	5.5	4.0	4.5	5.5	4.0	4.5	6.0	5.0	6.0
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	4.0	3.5	3.5	3.5	4.0
80°	2.5	2.0	2.0	1.5	2.0	2.0	2.0	3.0	2.5	2.5	3.0
82.5°	1.0	1.0	0.5	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
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	1.0	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: P245858

CATALOG NUMBER: LD8B20D010 ER8B20935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6
2.5°	1026.6	1026.6	1026.1	1025.1	1023.1	1023.1	1022.6	1021.1	1020.1	1019.6	1019.6
5°	1021.6	1019.6	1017.6	1012.1	1012.1	1011.1	1008.1	1006.1	1005.1	1002.5	1001.6
7.5°	1017.1	1011.1	1007.6	1004.1	999.6	997.5	994.0	992.5	989.0	986.5	985.0
10°	1006.1	1002.1	997.5	992.0	988.5	984.5	980.5	977.5	972.9	970.4	968.4
12.5°	998.5	992.5	988.5	982.5	976.5	972.9	967.4	963.9	959.4	954.4	951.4
15°	991.5	985.0	979.5	972.9	966.4	962.4	955.9	951.9	945.4	940.3	936.8
17.5°	981.0	975.4	969.4	961.4	955.4	950.4	943.3	938.3	932.3	925.8	922.3
20°	969.9	963.4	957.4	949.4	943.3	937.3	930.3	924.8	917.7	911.7	907.7
22.5°	955.4	947.9	942.8	934.8	927.8	921.3	914.7	908.2	901.7	896.7	892.2
25°	934.3	926.3	920.8	914.2	907.7	902.7	894.7	890.7	884.1	879.6	875.1
27.5°	904.2	898.2	893.2	886.6	881.1	877.1	871.1	867.1	861.5	857.5	854.0
30°	860.1	855.0	850.5	844.0	840.0	836.5	830.9	827.4	823.4	818.9	817.9
32.5°	800.8	796.8	792.3	787.8	784.8	782.8	778.2	776.2	772.2	769.7	767.2
35°	711.5	708.0	705.5	703.5	702.5	703.0	702.0	704.0	705.0	704.5	705.0
37.5°	594.6	592.6	593.6	595.1	600.1	606.7	612.7	621.7	627.7	633.8	639.3
40°	464.1	465.7	469.7	478.7	491.7	506.3	519.9	536.9	554.0	566.0	577.0
42.5°	350.2	354.8	364.8	377.8	397.4	419.0	440.1	465.1	485.7	505.8	519.9
45°	263.4	269.4	282.5	300.6	322.1	347.2	373.8	401.9	426.5	447.1	462.6
47.5°	205.2	210.7	223.8	242.9	269.4	295.6	323.1	352.2	377.8	397.9	411.5
50°	162.1	169.1	180.6	200.7	227.3	254.9	283.5	312.1	336.2	353.3	365.3
52.5°	127.5	134.0	145.0	166.1	193.2	220.8	247.4	275.5	296.5	313.1	321.1
55°	98.8	104.9	116.4	134.0	159.6	186.7	213.2	237.4	256.9	269.0	276.5
57.5°	75.3	79.8	87.8	105.4	128.5	153.5	176.1	200.2	215.3	223.8	228.8
60°	57.2	60.7	69.3	82.8	103.9	125.4	144.5	162.6	174.6	181.6	186.7
62.5°	43.1	47.2	53.2	64.7	80.8	98.4	114.4	127.9	138.0	142.5	146.0
65°	29.6	32.6	37.1	46.2	59.7	72.2	84.8	94.8	101.4	106.4	108.4
67.5°	22.1	24.1	26.6	33.6	43.1	53.2	61.7	68.7	75.8	77.8	81.3
70°	16.6	18.1	20.6	25.6	31.1	38.1	45.2	49.2	54.2	57.7	58.7
72.5°	10.5	11.0	13.5	16.6	21.1	25.6	30.1	33.6	36.6	38.6	39.6
75°	6.0	9.0	9.0	12.0	15.1	17.1	20.1	22.6	24.1	25.6	25.6
77.5°	4.0	5.5	6.0	7.5	9.0	11.5	14.0	15.6	17.1	17.6	17.6
80°	3.5	4.0	4.0	5.5	6.5	8.5	10.0	10.5	11.5	12.0	13.1
82.5°	1.5	2.0	2.5	4.0	4.5	4.5	6.0	6.5	7.5	8.0	8.0
85°	0.5	1.0	1.0	1.5	2.5	3.0	3.5	4.0	4.5	4.5	5.0
87.5°	0.5	0.5	0.0	0.5	1.0	1.0	2.0	2.0	2.0	3.0	3.0
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: P245858

CATALOG NUMBER: LD8B20D010 ER8B20935 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6	1027.6
2.5°	1018.6	1019.1	1017.1	1016.6	1015.6	1016.1	1017.1
5°	1000.0	1000.5	998.5	996.5	996.5	996.0	996.5
7.5°	982.5	983.0	980.0	979.0	977.0	977.5	977.5
10°	964.9	964.9	960.4	959.9	958.4	957.9	957.9
12.5°	947.9	946.3	942.8	940.8	941.8	938.8	938.8
15°	932.8	930.3	925.8	924.3	921.8	920.8	920.8
17.5°	917.2	915.2	911.2	908.2	905.2	904.7	905.2
20°	902.2	900.2	895.2	893.2	890.7	890.7	889.7
22.5°	887.1	885.1	880.6	879.1	875.6	875.6	876.1
25°	871.6	870.1	865.1	864.1	863.6	861.5	862.6
27.5°	850.5	849.5	845.5	844.0	842.0	841.5	842.5
30°	811.9	810.4	807.4	805.9	802.4	802.8	803.8
32.5°	763.7	761.7	757.7	756.2	753.2	752.2	752.7
35°	703.5	702.0	698.5	698.5	695.5	694.5	695.5
37.5°	642.3	643.8	642.3	643.8	642.3	641.8	642.3
40°	584.6	590.1	591.1	596.6	594.6	597.6	597.1
42.5°	529.4	538.4	541.9	546.4	545.4	547.4	549.0
45°	473.7	481.2	484.7	487.7	488.2	489.2	489.7
47.5°	421.0	427.0	427.5	431.0	430.5	430.5	432.0
50°	371.8	375.8	376.8	379.3	377.3	376.3	376.8
52.5°	326.2	330.2	329.2	330.2	327.7	326.7	327.2
55°	279.5	281.5	281.5	281.5	278.5	278.5	278.5
57.5°	231.8	232.3	231.3	231.8	231.3	228.3	227.8
60°	188.2	188.2	187.7	188.2	186.7	185.2	185.2
62.5°	147.0	148.0	150.0	148.0	147.0	148.0	146.5
65°	109.9	111.9	111.4	112.4	111.9	111.9	110.9
67.5°	82.8	83.3	83.8	84.3	84.3	84.3	84.3
70°	60.7	62.2	61.7	61.7	61.7	61.7	64.7
72.5°	40.6	42.6	42.2	43.1	43.1	44.2	43.1
75°	27.6	29.6	28.6	30.1	29.6	28.6	31.1
77.5°	18.6	19.6	20.1	20.6	20.1	19.6	20.1
80°	13.1	14.0	13.5	14.0	14.0	14.0	14.6
82.5°	8.0	9.5	9.0	9.5	9.0	9.5	9.5
85°	5.5	6.0	5.0	6.0	5.5	5.5	6.5
87.5°	3.5	3.0	3.0	3.5	3.0	3.5	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)