

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: P245900

Luminaire Tested: **LD8B20D010 ER8B20835 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245900  
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 ER8B20835 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1676.0 lumens  
Efficiency: N/A  
Efficacy: 78.7 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

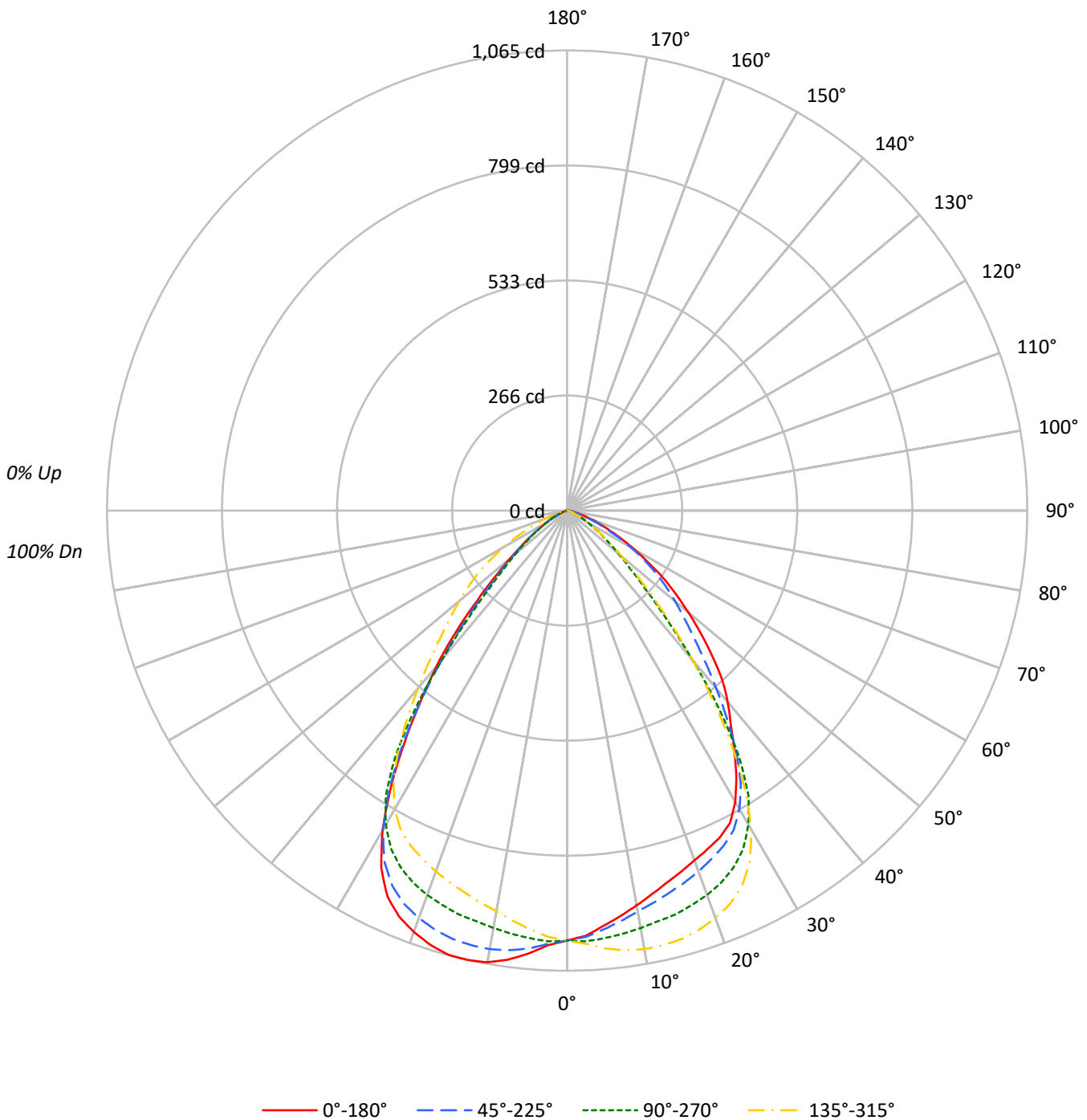
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	30682	30682	30682	30682
5°	29868	30753	31852	30753
10°	29042	30714	33238	30714
15°	28460	30896	33967	30896
20°	28267	31073	34052	31073
25°	28414	31010	33507	31010
30°	27713	29874	30412	29874
35°	25350	26061	24728	26061
40°	23271	18130	18931	18130
45°	20679	11059	12795	11059
50°	17505	7388	8203	7388
55°	14494	5043	5328	5043
60°	11058	3355	3386	3355
65°	7836	2094	1912	2094
70°	5653	1397	1271	1397
75°	3586	691	584	691
80°	2504	515	426	515
85°	2229	0	177	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.7	5.7
10°-20°	274.2	16.4
20°-30°	415.3	24.8
30°-40°	416.2	24.8
40°-50°	261.4	15.6
50°-60°	139.3	8.3
60°-70°	57.3	3.4
70°-80°	15.1	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°	784.2	46.8
0°-40°	1200.4	71.6
0°-60°	1601.0	95.5
0°-90°	1676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1676.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	995	995	995	995	995	
5°	965	994	1029	994	965	91
15°	892	968	1064	968	892	252
25°	835	911	985	911	835	383
35°	673	692	657	692	673	422
45°	474	254	293	254	474	365
55°	270	94	99	94	270	240
65°	107	29	26	29	107	111
75°	30	6	5	6	30	34
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°	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0
2.5°	984.8	983.8	983.3	984.3	984.8	986.7	986.2	987.2	987.2	987.7	988.7
5°	964.9	964.4	964.9	964.9	966.8	968.8	968.3	969.7	970.7	973.1	974.1
7.5°	946.4	946.4	945.9	947.9	948.8	951.8	951.3	953.7	955.2	957.6	961.0
10°	927.5	927.5	927.9	929.4	929.9	934.3	934.3	937.7	939.6	942.0	946.4
12.5°	909.0	909.0	911.9	910.9	912.9	916.3	917.7	921.1	924.1	928.9	933.3
15°	891.5	891.5	892.5	894.9	896.4	900.7	903.2	907.1	910.5	915.3	921.6
17.5°	876.4	876.0	876.4	879.4	882.3	886.2	888.1	893.0	896.4	902.7	908.5
20°	861.4	862.4	862.4	864.8	866.7	871.6	873.5	878.9	882.8	888.6	895.4
22.5°	848.3	847.8	847.8	851.2	852.6	857.0	858.9	863.8	868.2	873.0	879.4
25°	835.1	834.2	836.1	836.6	837.6	842.4	843.9	847.3	851.7	856.0	862.4
27.5°	815.7	814.8	815.2	817.2	818.6	822.5	823.5	826.9	830.3	834.2	839.5
30°	778.3	777.3	776.9	780.3	781.7	784.6	786.1	791.9	792.9	797.3	801.1
32.5°	728.7	728.3	729.2	732.1	733.6	737.5	739.4	742.8	745.3	747.7	751.6
35°	673.4	672.4	673.4	676.3	676.3	679.7	681.1	682.6	682.1	682.6	681.6
37.5°	621.9	621.4	621.9	623.3	621.9	623.3	621.9	619.0	613.6	607.8	601.9
40°	578.1	578.6	575.7	577.7	572.3	571.3	566.0	558.7	548.0	536.4	519.9
42.5°	531.5	530.0	528.1	529.1	524.7	521.3	512.6	503.3	489.7	470.3	450.4
45°	474.2	473.7	472.7	472.2	469.3	465.9	458.6	447.9	432.9	413.0	389.1
47.5°	418.3	416.8	416.8	417.3	413.9	413.4	407.6	398.4	385.3	365.8	341.1
50°	364.9	364.4	365.4	367.3	364.9	363.9	360.0	353.7	342.0	325.5	302.2
52.5°	316.8	316.3	317.3	319.7	318.7	319.7	315.8	310.9	303.2	287.1	266.7
55°	269.6	269.6	269.6	272.5	272.5	272.5	270.6	267.7	260.4	248.7	229.8
57.5°	220.6	221.1	224.0	224.5	224.0	225.0	224.5	221.5	216.7	208.4	193.9
60°	179.3	179.3	180.7	182.2	181.7	182.2	182.2	180.7	175.9	169.1	157.4
62.5°	141.9	143.3	142.3	143.3	145.3	143.3	142.3	141.4	138.0	133.6	123.9
65°	107.4	108.3	108.3	108.8	107.8	108.3	106.4	104.9	103.0	98.1	91.8
67.5°	81.6	81.6	81.6	81.6	81.1	80.6	80.2	78.7	75.3	73.4	66.6
70°	62.7	59.8	59.8	59.8	59.8	60.3	58.8	56.9	55.9	52.5	47.6
72.5°	41.8	42.8	41.8	41.8	40.8	41.3	39.4	38.4	37.4	35.5	32.6
75°	30.1	27.7	28.7	29.2	27.7	28.7	26.7	24.8	24.8	23.3	21.9
77.5°	19.4	19.0	19.4	19.9	19.4	19.0	18.0	17.0	17.0	16.5	15.1
80°	14.1	13.6	13.6	13.6	13.1	13.6	12.6	12.6	11.7	11.2	10.2
82.5°	9.2	9.2	8.7	9.2	8.7	9.2	7.8	7.8	7.8	7.3	6.3
85°	6.3	5.3	5.3	5.8	4.9	5.8	5.3	4.9	4.4	4.4	3.9
87.5°	2.9	3.4	2.9	3.4	2.9	2.9	3.4	2.9	2.9	1.9	1.9
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°	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0
2.5°	990.1	990.6	990.6	992.6	993.5	994.0	994.0	997.9	996.4	997.4	998.4
5°	976.1	979.0	979.9	979.9	985.3	987.2	989.1	993.5	994.0	996.9	1000.3
7.5°	962.4	965.8	967.8	972.2	975.6	979.0	984.8	987.7	990.6	994.5	998.9
10°	949.3	953.2	957.1	960.5	965.8	970.2	974.1	980.9	984.3	989.6	995.5
12.5°	936.7	942.0	945.4	951.3	957.1	961.0	966.8	973.1	978.5	983.8	990.6
15°	925.5	931.8	935.7	942.0	948.4	953.7	960.0	967.8	971.7	978.0	984.3
17.5°	913.4	920.2	925.0	930.9	938.6	944.5	949.8	957.6	962.4	969.2	976.5
20°	900.7	907.5	913.4	919.2	927.0	932.8	939.1	946.9	952.2	959.0	964.9
22.5°	885.7	892.0	898.3	905.1	912.9	917.7	925.0	931.8	937.7	944.0	949.8
25°	866.2	874.0	878.9	885.2	891.5	896.8	904.6	911.4	916.3	922.1	927.5
27.5°	843.4	849.2	853.1	858.5	864.8	869.6	875.5	882.3	887.1	892.5	896.4
30°	804.5	809.9	813.3	817.2	823.5	827.9	832.7	839.0	842.4	846.3	849.7
32.5°	753.5	757.9	759.8	762.8	767.1	771.5	775.4	780.7	782.2	784.6	784.6
35°	679.7	680.6	680.2	681.1	683.1	685.5	688.9	692.3	694.2	694.2	692.8
37.5°	593.2	587.4	581.1	576.2	574.7	573.8	575.7	577.2	579.1	580.1	577.7
40°	503.3	490.2	476.1	463.5	454.7	450.9	449.4	450.4	450.4	453.8	453.8
42.5°	426.1	405.7	384.8	365.8	353.2	343.5	339.1	339.1	339.6	342.0	343.5
45°	362.0	336.2	311.9	291.0	273.5	260.9	255.1	253.6	253.1	254.1	257.5
47.5°	312.9	286.2	260.9	235.1	216.7	204.1	198.7	196.8	194.8	196.8	197.3
50°	274.5	246.8	220.1	194.3	174.9	163.7	156.9	154.0	153.5	153.5	154.5
52.5°	239.5	213.8	187.1	160.8	140.4	129.7	123.4	121.9	120.0	121.9	121.9
55°	206.5	180.7	154.5	129.7	112.7	101.5	95.7	93.8	92.8	94.2	94.2
57.5°	170.5	148.7	124.4	102.0	85.0	77.2	72.9	70.5	70.0	70.9	70.0
60°	139.9	121.5	100.6	80.2	67.1	58.8	55.4	54.4	53.4	54.4	54.4
62.5°	110.8	95.2	78.2	62.7	51.5	45.7	41.8	41.8	41.3	41.3	41.8
65°	82.1	70.0	57.8	44.7	36.0	31.6	28.7	28.7	28.2	28.7	28.2
67.5°	59.8	51.5	41.8	32.6	25.8	23.3	21.4	19.9	20.9	19.9	19.4
70°	43.7	36.9	30.1	24.8	19.9	17.5	16.0	15.5	14.6	14.6	14.6
72.5°	29.2	24.8	20.4	16.0	13.1	10.7	10.2	9.2	8.3	8.7	9.7
75°	19.4	16.5	14.6	11.7	8.7	8.7	5.8	5.8	4.9	5.8	4.4
77.5°	13.6	11.2	8.7	7.3	5.8	5.3	3.9	3.9	3.4	3.4	3.4
80°	9.7	8.3	6.3	5.3	3.9	3.9	3.4	2.9	2.4	2.4	2.9
82.5°	5.8	4.4	4.4	3.9	2.4	1.9	1.5	1.9	1.0	1.0	1.0
85°	3.4	2.9	2.4	1.5	1.0	1.0	0.5	0.0	0.5	0.5	0.0
87.5°	1.9	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°	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0
2.5°	1000.8	1000.3	1001.3	1001.3	1004.2	1003.7	1005.2	1005.2	1004.2	1004.7	1006.6
5°	1004.2	1005.7	1008.6	1011.0	1015.4	1017.3	1019.8	1022.2	1022.7	1024.1	1025.6
7.5°	1004.2	1009.1	1012.5	1016.8	1022.7	1026.1	1031.4	1035.8	1037.7	1040.2	1043.1
10°	1002.3	1007.1	1013.4	1018.3	1025.6	1030.9	1036.3	1043.1	1046.0	1049.9	1053.8
12.5°	998.4	1003.7	1010.5	1016.8	1025.1	1030.0	1036.8	1043.1	1047.5	1052.8	1057.2
15°	992.6	998.9	1005.2	1011.5	1020.2	1026.1	1032.4	1039.7	1044.1	1049.9	1053.8
17.5°	983.3	990.1	996.0	1001.8	1010.0	1016.8	1022.7	1029.5	1033.9	1038.7	1044.1
20°	972.2	978.5	984.8	989.6	997.9	1003.7	1010.0	1016.4	1019.8	1020.7	1029.0
22.5°	958.1	962.4	967.3	975.1	979.9	985.3	991.1	996.9	1000.3	1005.7	1008.6
25°	934.7	939.1	944.5	947.9	953.7	958.1	963.9	970.2	972.2	976.1	979.0
27.5°	902.2	904.6	907.1	910.0	913.4	915.8	919.2	922.1	924.1	926.0	927.9
30°	850.7	850.7	850.7	848.7	850.2	851.7	852.1	851.7	851.7	851.2	851.2
32.5°	782.7	778.8	774.4	770.5	769.1	767.1	766.2	764.7	762.3	760.8	761.3
35°	690.8	682.1	676.8	671.9	668.0	665.1	663.7	662.2	661.7	659.8	657.8
37.5°	576.2	569.9	566.0	563.1	559.7	556.8	557.2	557.7	559.2	558.2	558.7
40°	454.7	453.3	454.7	451.3	450.4	451.3	453.8	457.2	459.1	461.1	464.5
42.5°	345.9	348.3	351.8	351.8	353.2	355.2	358.1	363.4	366.3	369.7	373.6
45°	260.4	263.3	267.7	269.1	270.1	272.5	276.0	280.3	282.3	285.2	288.6
47.5°	200.7	202.6	205.0	207.5	209.9	210.9	214.3	214.3	216.7	218.6	219.6
50°	156.4	158.4	160.3	161.8	162.8	164.2	165.2	166.6	167.1	168.1	168.6
52.5°	122.4	124.9	124.9	125.8	127.3	128.7	128.3	128.7	129.2	129.2	130.7
55°	95.7	95.7	97.2	97.2	98.1	97.6	98.1	98.1	98.1	98.1	98.6
57.5°	71.4	71.9	73.4	72.4	71.9	72.9	71.9	72.9	72.4	73.4	71.9
60°	54.9	54.9	55.4	55.4	55.9	55.9	55.9	55.4	55.4	54.9	54.9
62.5°	41.3	41.8	42.3	41.8	41.8	41.8	41.3	41.3	40.8	40.3	40.3
65°	27.7	27.2	28.2	27.2	27.7	27.7	27.2	27.7	26.2	26.7	26.2
67.5°	19.9	19.4	19.0	19.4	19.0	18.5	18.5	19.0	19.4	18.0	18.0
70°	13.1	13.6	13.1	13.6	14.1	14.1	13.6	13.1	13.6	12.6	13.1
72.5°	8.3	8.3	8.3	8.3	8.3	8.7	8.7	8.7	7.8	7.8	7.3
75°	3.9	5.3	4.4	3.9	5.3	5.3	4.9	4.9	4.4	4.4	4.4
77.5°	3.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.4	2.9	2.4
80°	1.9	1.9	1.9	1.5	1.9	1.9	2.4	1.9	1.9	1.5	2.4
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 ER8B20835 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0
2.5°	1006.2	1005.7	1006.2	1006.6	1006.2	1005.7	1006.2	1006.6	1004.7	1004.2	1005.2
5°	1027.5	1027.5	1028.5	1029.0	1028.5	1027.5	1027.5	1025.6	1024.1	1022.7	1022.2
7.5°	1046.0	1047.0	1047.9	1048.4	1047.9	1047.0	1046.0	1043.1	1040.2	1037.7	1035.8
10°	1057.2	1058.6	1060.6	1061.5	1060.6	1058.6	1057.2	1053.8	1049.9	1046.0	1043.1
12.5°	1062.0	1063.5	1065.9	1065.4	1065.9	1063.5	1062.0	1057.2	1052.8	1047.5	1043.1
15°	1058.6	1060.6	1063.0	1064.0	1063.0	1060.6	1058.6	1053.8	1049.9	1044.1	1039.7
17.5°	1047.9	1050.9	1052.3	1053.8	1052.3	1050.9	1047.9	1044.1	1038.7	1033.9	1029.5
20°	1033.4	1035.3	1037.3	1037.7	1037.3	1035.3	1033.4	1029.0	1020.7	1019.8	1016.4
22.5°	1012.5	1013.9	1018.3	1016.8	1018.3	1013.9	1012.5	1008.6	1005.7	1000.3	996.9
25°	982.3	983.8	984.3	984.8	984.3	983.8	982.3	979.0	976.1	972.2	970.2
27.5°	930.4	930.4	931.3	931.8	931.3	930.4	930.4	927.9	926.0	924.1	922.1
30°	851.7	851.7	851.7	854.1	851.7	851.7	851.7	851.2	851.2	851.7	851.7
32.5°	760.8	759.8	758.9	759.8	758.9	759.8	760.8	761.3	760.8	762.3	764.7
35°	657.8	657.3	658.8	656.9	658.8	657.3	657.8	657.8	659.8	661.7	662.2
37.5°	559.2	558.2	560.2	558.2	560.2	558.2	559.2	558.7	558.2	559.2	557.7
40°	465.4	466.4	466.4	470.3	466.4	466.4	465.4	464.5	461.1	459.1	457.2
42.5°	375.6	378.5	377.5	380.4	377.5	378.5	375.6	373.6	369.7	366.3	363.4
45°	290.5	292.5	292.5	293.4	292.5	292.5	290.5	288.6	285.2	282.3	280.3
47.5°	223.0	223.0	223.0	223.5	223.0	223.0	223.0	219.6	218.6	216.7	214.3
50°	169.6	170.0	170.5	171.0	170.5	170.0	169.6	168.6	168.1	167.1	166.6
52.5°	130.2	130.7	129.7	130.7	129.7	130.7	130.2	130.7	129.2	129.2	128.7
55°	98.6	98.1	98.6	99.1	98.6	98.1	98.6	98.6	98.1	98.1	98.1
57.5°	72.4	71.4	71.4	71.4	71.4	71.4	72.4	71.9	73.4	72.4	72.9
60°	53.9	54.4	54.4	54.9	54.4	54.4	53.9	54.9	54.9	55.4	55.4
62.5°	39.8	41.3	40.3	41.3	40.3	41.3	39.8	40.3	40.3	40.8	41.3
65°	25.8	25.8	25.8	26.2	25.8	25.8	25.8	26.2	26.7	26.2	27.7
67.5°	17.5	18.0	19.0	18.5	19.0	18.0	17.5	18.0	18.0	19.4	19.0
70°	14.1	12.6	12.6	14.1	12.6	12.6	14.1	13.1	12.6	13.6	13.1
72.5°	8.3	7.3	8.3	8.3	8.3	7.3	8.3	7.3	7.8	7.8	8.7
75°	4.4	3.9	3.4	4.9	3.4	3.9	4.4	4.4	4.4	4.4	4.9
77.5°	2.9	2.4	3.4	3.4	3.4	2.4	2.9	2.4	2.9	2.4	2.9
80°	1.5	1.9	1.5	2.4	1.5	1.9	1.5	2.4	1.5	1.9	1.9
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: P245900

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0
2.5°	1005.2	1003.7	1004.2	1001.3	1001.3	1000.3	1000.8	998.4	997.4	996.4	997.9
5°	1019.8	1017.3	1015.4	1011.0	1008.6	1005.7	1004.2	1000.3	996.9	994.0	993.5
7.5°	1031.4	1026.1	1022.7	1016.8	1012.5	1009.1	1004.2	998.9	994.5	990.6	987.7
10°	1036.3	1030.9	1025.6	1018.3	1013.4	1007.1	1002.3	995.5	989.6	984.3	980.9
12.5°	1036.8	1030.0	1025.1	1016.8	1010.5	1003.7	998.4	990.6	983.8	978.5	973.1
15°	1032.4	1026.1	1020.2	1011.5	1005.2	998.9	992.6	984.3	978.0	971.7	967.8
17.5°	1022.7	1016.8	1010.0	1001.8	996.0	990.1	983.3	976.5	969.2	962.4	957.6
20°	1010.0	1003.7	997.9	989.6	984.8	978.5	972.2	964.9	959.0	952.2	946.9
22.5°	991.1	985.3	979.9	975.1	967.3	962.4	958.1	949.8	944.0	937.7	931.8
25°	963.9	958.1	953.7	947.9	944.5	939.1	934.7	927.5	922.1	916.3	911.4
27.5°	919.2	915.8	913.4	910.0	907.1	904.6	902.2	896.4	892.5	887.1	882.3
30°	852.1	851.7	850.2	848.7	850.7	850.7	850.7	849.7	846.3	842.4	839.0
32.5°	766.2	767.1	769.1	770.5	774.4	778.8	782.7	784.6	784.6	782.2	780.7
35°	663.7	665.1	668.0	671.9	676.8	682.1	690.8	692.8	694.2	694.2	692.3
37.5°	557.2	556.8	559.7	563.1	566.0	569.9	576.2	577.7	580.1	579.1	577.2
40°	453.8	451.3	450.4	451.3	454.7	453.3	454.7	453.8	453.8	450.4	450.4
42.5°	358.1	355.2	353.2	351.8	351.8	348.3	345.9	343.5	342.0	339.6	339.1
45°	276.0	272.5	270.1	269.1	267.7	263.3	260.4	257.5	254.1	253.1	253.6
47.5°	214.3	210.9	209.9	207.5	205.0	202.6	200.7	197.3	196.8	194.8	196.8
50°	165.2	164.2	162.8	161.8	160.3	158.4	156.4	154.5	153.5	153.5	154.0
52.5°	128.3	128.7	127.3	125.8	124.9	124.9	122.4	121.9	121.9	120.0	121.9
55°	98.1	97.6	98.1	97.2	97.2	95.7	95.7	94.2	94.2	92.8	93.8
57.5°	71.9	72.9	71.9	72.4	73.4	71.9	71.4	70.0	70.9	70.0	70.5
60°	55.9	55.9	55.9	55.4	55.4	54.9	54.9	54.4	54.4	53.4	54.4
62.5°	41.3	41.8	41.8	41.8	42.3	41.8	41.3	41.8	41.3	41.3	41.8
65°	27.2	27.7	27.7	27.2	28.2	27.2	27.7	28.2	28.7	28.2	28.7
67.5°	18.5	18.5	19.0	19.4	19.0	19.4	19.9	19.4	19.9	20.9	19.9
70°	13.6	14.1	14.1	13.6	13.1	13.6	13.1	14.6	14.6	14.6	15.5
72.5°	8.7	8.7	8.3	8.3	8.3	8.3	8.3	9.7	8.7	8.3	9.2
75°	4.9	5.3	5.3	3.9	4.4	5.3	3.9	4.4	5.8	4.9	5.8
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.4	3.4	3.4	3.9
80°	2.4	1.9	1.9	1.5	1.9	1.9	1.9	2.9	2.4	2.4	2.9
82.5°	1.0	1.0	0.5	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9
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: P245900

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0
2.5°	994.0	994.0	993.5	992.6	990.6	990.6	990.1	988.7	987.7	987.2	987.2
5°	989.1	987.2	985.3	979.9	979.9	979.0	976.1	974.1	973.1	970.7	969.7
7.5°	984.8	979.0	975.6	972.2	967.8	965.8	962.4	961.0	957.6	955.2	953.7
10°	974.1	970.2	965.8	960.5	957.1	953.2	949.3	946.4	942.0	939.6	937.7
12.5°	966.8	961.0	957.1	951.3	945.4	942.0	936.7	933.3	928.9	924.1	921.1
15°	960.0	953.7	948.4	942.0	935.7	931.8	925.5	921.6	915.3	910.5	907.1
17.5°	949.8	944.5	938.6	930.9	925.0	920.2	913.4	908.5	902.7	896.4	893.0
20°	939.1	932.8	927.0	919.2	913.4	907.5	900.7	895.4	888.6	882.8	878.9
22.5°	925.0	917.7	912.9	905.1	898.3	892.0	885.7	879.4	873.0	868.2	863.8
25°	904.6	896.8	891.5	885.2	878.9	874.0	866.2	862.4	856.0	851.7	847.3
27.5°	875.5	869.6	864.8	858.5	853.1	849.2	843.4	839.5	834.2	830.3	826.9
30°	832.7	827.9	823.5	817.2	813.3	809.9	804.5	801.1	797.3	792.9	791.9
32.5°	775.4	771.5	767.1	762.8	759.8	757.9	753.5	751.6	747.7	745.3	742.8
35°	688.9	685.5	683.1	681.1	680.2	680.6	679.7	681.6	682.6	682.1	682.6
37.5°	575.7	573.8	574.7	576.2	581.1	587.4	593.2	601.9	607.8	613.6	619.0
40°	449.4	450.9	454.7	463.5	476.1	490.2	503.3	519.9	536.4	548.0	558.7
42.5°	339.1	343.5	353.2	365.8	384.8	405.7	426.1	450.4	470.3	489.7	503.3
45°	255.1	260.9	273.5	291.0	311.9	336.2	362.0	389.1	413.0	432.9	447.9
47.5°	198.7	204.1	216.7	235.1	260.9	286.2	312.9	341.1	365.8	385.3	398.4
50°	156.9	163.7	174.9	194.3	220.1	246.8	274.5	302.2	325.5	342.0	353.7
52.5°	123.4	129.7	140.4	160.8	187.1	213.8	239.5	266.7	287.1	303.2	310.9
55°	95.7	101.5	112.7	129.7	154.5	180.7	206.5	229.8	248.7	260.4	267.7
57.5°	72.9	77.2	85.0	102.0	124.4	148.7	170.5	193.9	208.4	216.7	221.5
60°	55.4	58.8	67.1	80.2	100.6	121.5	139.9	157.4	169.1	175.9	180.7
62.5°	41.8	45.7	51.5	62.7	78.2	95.2	110.8	123.9	133.6	138.0	141.4
65°	28.7	31.6	36.0	44.7	57.8	70.0	82.1	91.8	98.1	103.0	104.9
67.5°	21.4	23.3	25.8	32.6	41.8	51.5	59.8	66.6	73.4	75.3	78.7
70°	16.0	17.5	19.9	24.8	30.1	36.9	43.7	47.6	52.5	55.9	56.9
72.5°	10.2	10.7	13.1	16.0	20.4	24.8	29.2	32.6	35.5	37.4	38.4
75°	5.8	8.7	8.7	11.7	14.6	16.5	19.4	21.9	23.3	24.8	24.8
77.5°	3.9	5.3	5.8	7.3	8.7	11.2	13.6	15.1	16.5	17.0	17.0
80°	3.4	3.9	3.9	5.3	6.3	8.3	9.7	10.2	11.2	11.7	12.6
82.5°	1.5	1.9	2.4	3.9	4.4	4.4	5.8	6.3	7.3	7.8	7.8
85°	0.5	1.0	1.0	1.5	2.4	2.9	3.4	3.9	4.4	4.4	4.9
87.5°	0.5	0.5	0.0	0.5	1.0	1.0	1.9	1.9	1.9	2.9	2.9
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: P245900

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	995.0	995.0	995.0	995.0	995.0	995.0	995.0
2.5°	986.2	986.7	984.8	984.3	983.3	983.8	984.8
5°	968.3	968.8	966.8	964.9	964.9	964.4	964.9
7.5°	951.3	951.8	948.8	947.9	945.9	946.4	946.4
10°	934.3	934.3	929.9	929.4	927.9	927.5	927.5
12.5°	917.7	916.3	912.9	910.9	911.9	909.0	909.0
15°	903.2	900.7	896.4	894.9	892.5	891.5	891.5
17.5°	888.1	886.2	882.3	879.4	876.4	876.0	876.4
20°	873.5	871.6	866.7	864.8	862.4	862.4	861.4
22.5°	858.9	857.0	852.6	851.2	847.8	847.8	848.3
25°	843.9	842.4	837.6	836.6	836.1	834.2	835.1
27.5°	823.5	822.5	818.6	817.2	815.2	814.8	815.7
30°	786.1	784.6	781.7	780.3	776.9	777.3	778.3
32.5°	739.4	737.5	733.6	732.1	729.2	728.3	728.7
35°	681.1	679.7	676.3	676.3	673.4	672.4	673.4
37.5°	621.9	623.3	621.9	623.3	621.9	621.4	621.9
40°	566.0	571.3	572.3	577.7	575.7	578.6	578.1
42.5°	512.6	521.3	524.7	529.1	528.1	530.0	531.5
45°	458.6	465.9	469.3	472.2	472.7	473.7	474.2
47.5°	407.6	413.4	413.9	417.3	416.8	416.8	418.3
50°	360.0	363.9	364.9	367.3	365.4	364.4	364.9
52.5°	315.8	319.7	318.7	319.7	317.3	316.3	316.8
55°	270.6	272.5	272.5	272.5	269.6	269.6	269.6
57.5°	224.5	225.0	224.0	224.5	224.0	221.1	220.6
60°	182.2	182.2	181.7	182.2	180.7	179.3	179.3
62.5°	142.3	143.3	145.3	143.3	142.3	143.3	141.9
65°	106.4	108.3	107.8	108.8	108.3	108.3	107.4
67.5°	80.2	80.6	81.1	81.6	81.6	81.6	81.6
70°	58.8	60.3	59.8	59.8	59.8	59.8	62.7
72.5°	39.4	41.3	40.8	41.8	41.8	42.8	41.8
75°	26.7	28.7	27.7	29.2	28.7	27.7	30.1
77.5°	18.0	19.0	19.4	19.9	19.4	19.0	19.4
80°	12.6	13.6	13.1	13.6	13.6	13.6	14.1
82.5°	7.8	9.2	8.7	9.2	8.7	9.2	9.2
85°	5.3	5.8	4.9	5.8	5.3	5.3	6.3
87.5°	3.4	2.9	2.9	3.4	2.9	3.4	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)