

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: P245906

Luminaire Tested: **LD8B20D010 ER8B20840 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245906
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 ER8B20840 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1665.0 lumens
Efficiency: N/A
Efficacy: 78.2 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

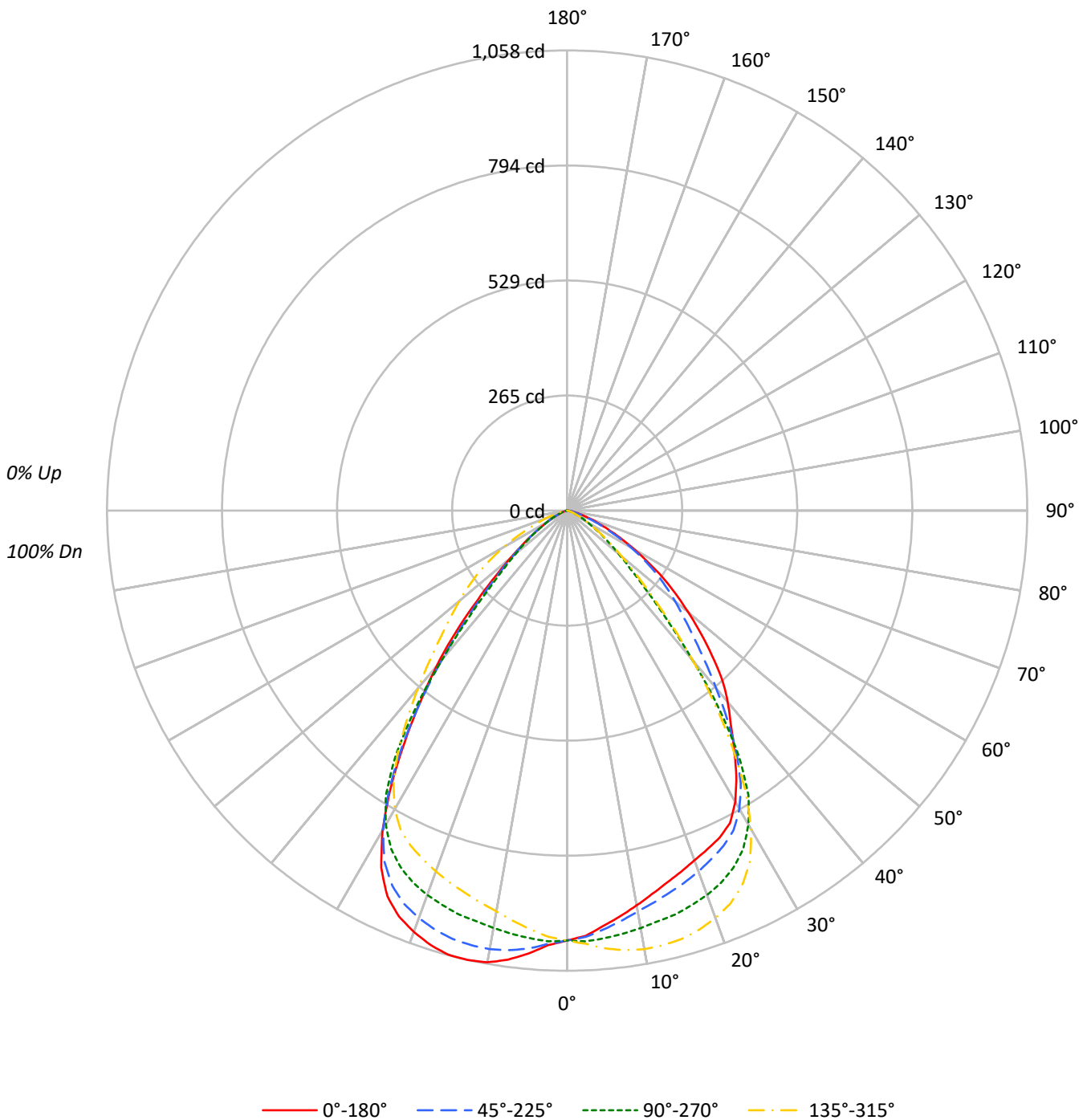
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	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°	30482	30482	30482	30482
5°	29670	30552	31644	30552
10°	28851	30514	33022	30514
15°	28275	30692	33744	30692
20°	28080	30869	33829	30869
25°	28230	30805	33286	30805
30°	27531	29678	30212	29678
35°	25184	25892	24563	25892
40°	23118	18010	18807	18010
45°	20544	10985	12712	10985
50°	17390	7340	8151	7340
55°	14403	5011	5296	5011
60°	10984	3336	3361	3336
65°	7785	2080	1904	2080
70°	5617	1388	1262	1388
75°	3562	691	572	691
80°	2486	515	426	515
85°	2229	0	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	5.7
10°-20°	272.4	16.4
20°-30°	412.5	24.8
30°-40°	413.5	24.8
40°-50°	259.6	15.6
50°-60°	138.4	8.3
60°-70°	56.9	3.4
70°-80°	15.0	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°	779.1	46.8
0°-40°	1192.5	71.6
0°-60°	1590.5	95.5
0°-90°	1665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1665.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	988	988	988	988	988	
5°	958	987	1022	987	958	90
15°	886	961	1057	961	886	250
25°	830	905	978	905	830	381
35°	669	688	652	688	669	419
45°	471	252	292	252	471	362
55°	268	93	98	93	268	239
65°	107	28	26	28	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°	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5
2.5°	978.3	977.4	976.9	977.8	978.3	980.3	979.8	980.7	980.7	981.2	982.2
5°	958.5	958.0	958.5	958.5	960.5	962.4	961.9	963.4	964.3	966.7	967.7
7.5°	940.2	940.2	939.7	941.6	942.6	945.5	945.0	947.4	948.9	951.3	954.7
10°	921.4	921.4	921.8	923.3	923.8	928.1	928.1	931.5	933.4	935.9	940.2
12.5°	903.0	903.0	905.9	905.0	906.9	910.3	911.7	915.1	918.0	922.8	927.2
15°	885.7	885.7	886.6	889.0	890.5	894.8	897.2	901.1	904.5	909.3	915.6
17.5°	870.7	870.2	870.7	873.6	876.5	880.3	882.3	887.1	890.5	896.8	902.6
20°	855.7	856.7	856.7	859.1	861.0	865.9	867.8	873.1	877.0	882.8	889.5
22.5°	842.7	842.2	842.2	845.6	847.1	851.4	853.3	858.1	862.5	867.3	873.6
25°	829.7	828.7	830.6	831.1	832.1	836.9	838.3	841.7	846.1	850.4	856.7
27.5°	810.4	809.4	809.9	811.8	813.3	817.1	818.1	821.5	824.8	828.7	834.0
30°	773.2	772.2	771.8	775.1	776.6	779.5	780.9	786.7	787.7	792.0	795.9
32.5°	724.0	723.5	724.5	727.3	728.8	732.7	734.6	738.0	740.4	742.8	746.6
35°	669.0	668.0	669.0	671.9	671.9	675.2	676.7	678.1	677.6	678.1	677.2
37.5°	617.8	617.3	617.8	619.2	617.8	619.2	617.8	614.9	609.6	603.8	598.0
40°	574.3	574.8	571.9	573.9	568.5	567.6	562.3	555.0	544.4	532.8	516.4
42.5°	528.0	526.6	524.6	525.6	521.3	517.9	509.2	500.0	486.5	467.2	447.4
45°	471.1	470.6	469.6	469.1	466.2	462.9	455.6	445.0	430.0	410.3	386.6
47.5°	415.6	414.1	414.1	414.6	411.2	410.7	404.9	395.8	382.7	363.4	338.8
50°	362.5	362.0	363.0	364.9	362.5	361.5	357.6	351.4	339.8	323.4	300.2
52.5°	314.7	314.2	315.2	317.6	316.6	317.6	313.7	308.9	301.2	285.2	265.0
55°	267.9	267.9	267.9	270.8	270.8	270.8	268.8	265.9	258.7	247.1	228.3
57.5°	219.1	219.6	222.5	223.0	222.5	223.5	223.0	220.1	215.3	207.1	192.6
60°	178.1	178.1	179.5	181.0	180.5	181.0	181.0	179.5	174.7	168.0	156.4
62.5°	140.9	142.4	141.4	142.4	144.3	142.4	141.4	140.5	137.1	132.7	123.1
65°	106.7	107.6	107.6	108.1	107.1	107.6	105.7	104.3	102.3	97.5	91.2
67.5°	81.1	81.1	81.1	81.1	80.6	80.1	79.6	78.2	74.8	72.9	66.1
70°	62.3	59.4	59.4	59.4	59.4	59.9	58.4	56.5	55.5	52.1	47.3
72.5°	41.5	42.5	41.5	41.5	40.5	41.0	39.1	38.1	37.2	35.2	32.3
75°	29.9	27.5	28.5	29.0	27.5	28.5	26.5	24.6	24.6	23.2	21.7
77.5°	19.3	18.8	19.3	19.8	19.3	18.8	17.9	16.9	16.9	16.4	15.0
80°	14.0	13.5	13.5	13.5	13.0	13.5	12.6	12.6	11.6	11.1	10.1
82.5°	9.2	9.2	8.7	9.2	8.7	9.2	7.7	7.7	7.7	7.2	6.3
85°	6.3	5.3	5.3	5.8	4.8	5.8	5.3	4.8	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°	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5
2.5°	983.6	984.1	984.1	986.1	987.0	987.5	987.5	991.4	989.9	990.9	991.8
5°	969.6	972.5	973.5	973.5	978.8	980.7	982.7	987.0	987.5	990.4	993.8
7.5°	956.1	959.5	961.4	965.8	969.1	972.5	978.3	981.2	984.1	988.0	992.3
10°	943.1	947.0	950.8	954.2	959.5	963.8	967.7	974.5	977.8	983.2	988.9
12.5°	930.5	935.9	939.2	945.0	950.8	954.7	960.5	966.7	972.0	977.4	984.1
15°	919.4	925.7	929.6	935.9	942.1	947.4	953.7	961.4	965.3	971.6	977.8
17.5°	907.4	914.1	919.0	924.7	932.5	938.3	943.6	951.3	956.1	962.9	970.1
20°	894.8	901.6	907.4	913.2	920.9	926.7	933.0	940.7	946.0	952.7	958.5
22.5°	879.9	886.1	892.4	899.2	906.9	911.7	919.0	925.7	931.5	937.8	943.6
25°	860.6	868.3	873.1	879.4	885.7	891.0	898.7	905.4	910.3	916.1	921.4
27.5°	837.9	843.7	847.5	852.8	859.1	863.9	869.7	876.5	881.3	886.6	890.5
30°	799.3	804.6	808.0	811.8	818.1	822.4	827.3	833.5	836.9	840.8	844.2
32.5°	748.6	752.9	754.9	757.8	762.1	766.4	770.3	775.6	777.1	779.5	779.5
35°	675.2	676.2	675.7	676.7	678.6	681.0	684.4	687.8	689.7	689.7	688.3
37.5°	589.3	583.5	577.2	572.4	571.0	570.0	571.9	573.4	575.3	576.3	573.9
40°	500.0	487.0	473.0	460.4	451.8	447.9	446.5	447.4	447.4	450.8	450.8
42.5°	423.3	403.0	382.3	363.4	350.9	341.2	336.9	336.9	337.4	339.8	341.2
45°	359.6	334.0	309.9	289.1	271.7	259.2	253.4	251.9	251.5	252.4	255.8
47.5°	310.8	284.3	259.2	233.6	215.3	202.7	197.4	195.5	193.5	195.5	196.0
50°	272.7	245.2	218.6	193.1	173.7	162.6	155.9	153.0	152.5	152.5	153.5
52.5°	237.9	212.4	185.8	159.8	139.5	128.9	122.6	121.1	119.2	121.1	121.1
55°	205.1	179.5	153.5	128.9	112.0	100.9	95.1	93.2	92.2	93.6	93.6
57.5°	169.4	147.7	123.6	101.4	84.5	76.7	72.4	70.0	69.5	70.5	69.5
60°	139.0	120.7	99.9	79.6	66.6	58.4	55.0	54.1	53.1	54.1	54.1
62.5°	110.0	94.6	77.7	62.3	51.2	45.4	41.5	41.5	41.0	41.0	41.5
65°	81.6	69.5	57.4	44.4	35.7	31.4	28.5	28.5	28.0	28.5	28.0
67.5°	59.4	51.2	41.5	32.3	25.6	23.2	21.2	19.8	20.8	19.8	19.3
70°	43.4	36.7	29.9	24.6	19.8	17.4	15.9	15.4	14.5	14.5	14.5
72.5°	29.0	24.6	20.3	15.9	13.0	10.6	10.1	9.2	8.2	8.7	9.7
75°	19.3	16.4	14.5	11.6	8.7	8.7	5.8	5.8	4.8	5.8	4.4
77.5°	13.5	11.1	8.7	7.2	5.8	5.3	3.9	3.9	3.4	3.4	3.4
80°	9.7	8.2	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°	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5
2.5°	994.3	993.8	994.7	994.7	997.6	997.1	998.6	998.6	997.6	998.1	1000.0
5°	997.6	999.1	1002.0	1004.4	1008.7	1010.7	1013.1	1015.5	1016.0	1017.4	1018.9
7.5°	997.6	1002.5	1005.8	1010.2	1016.0	1019.3	1024.7	1029.0	1030.9	1033.3	1036.2
10°	995.7	1000.5	1006.8	1011.6	1018.9	1024.2	1029.5	1036.2	1039.1	1043.0	1046.9
12.5°	991.8	997.1	1003.9	1010.2	1018.4	1023.2	1030.0	1036.2	1040.6	1045.9	1050.2
15°	986.1	992.3	998.6	1004.9	1013.5	1019.3	1025.6	1032.9	1037.2	1043.0	1046.9
17.5°	976.9	983.6	989.4	995.2	1003.4	1010.2	1016.0	1022.7	1027.1	1031.9	1037.2
20°	965.8	972.0	978.3	983.2	991.4	997.1	1003.4	1009.7	1013.1	1014.0	1022.3
22.5°	951.8	956.1	960.9	968.7	973.5	978.8	984.6	990.4	993.8	999.1	1002.0
25°	928.6	933.0	938.3	941.6	947.4	951.8	957.6	963.8	965.8	969.6	972.5
27.5°	896.3	898.7	901.1	904.0	907.4	909.8	913.2	916.1	918.0	919.9	921.8
30°	845.1	845.1	845.1	843.2	844.6	846.1	846.6	846.1	846.1	845.6	845.6
32.5°	777.5	773.7	769.3	765.5	764.0	762.1	761.1	759.7	757.3	755.8	756.3
35°	686.3	677.6	672.3	667.5	663.6	660.7	659.3	657.8	657.4	655.4	653.5
37.5°	572.4	566.1	562.3	559.4	556.0	553.1	553.6	554.1	555.5	554.6	555.0
40°	451.8	450.3	451.8	448.4	447.4	448.4	450.8	454.2	456.1	458.0	461.4
42.5°	343.6	346.0	349.4	349.4	350.9	352.8	355.7	361.0	363.9	367.3	371.2
45°	258.7	261.6	265.9	267.4	268.4	270.8	274.2	278.5	280.4	283.3	286.7
47.5°	199.3	201.3	203.7	206.1	208.5	209.5	212.8	212.8	215.3	217.2	218.1
50°	155.4	157.3	159.3	160.7	161.7	163.1	164.1	165.5	166.0	167.0	167.5
52.5°	121.6	124.0	124.0	125.0	126.4	127.9	127.4	127.9	128.4	128.4	129.8
55°	95.1	95.1	96.5	96.5	97.5	97.0	97.5	97.5	97.5	97.5	98.0
57.5°	70.9	71.4	72.9	71.9	71.4	72.4	71.4	72.4	71.9	72.9	71.4
60°	54.5	54.5	55.0	55.0	55.5	55.5	55.5	55.0	55.0	54.5	54.5
62.5°	41.0	41.5	42.0	41.5	41.5	41.5	41.0	41.0	40.5	40.1	40.1
65°	27.5	27.0	28.0	27.0	27.5	27.5	27.0	27.5	26.1	26.5	26.1
67.5°	19.8	19.3	18.8	19.3	18.8	18.3	18.3	18.8	19.3	17.9	17.9
70°	13.0	13.5	13.0	13.5	14.0	14.0	13.5	13.0	13.5	12.6	13.0
72.5°	8.2	8.2	8.2	8.2	8.2	8.7	8.7	8.7	7.7	7.7	7.2
75°	3.9	5.3	4.4	3.9	5.3	5.3	4.8	4.8	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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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5
2.5°	999.6	999.1	999.6	1000.0	999.6	999.1	999.6	1000.0	998.1	997.6	998.6
5°	1020.8	1020.8	1021.8	1022.3	1021.8	1020.8	1020.8	1018.9	1017.4	1016.0	1015.5
7.5°	1039.1	1040.1	1041.1	1041.5	1041.1	1040.1	1039.1	1036.2	1033.3	1030.9	1029.0
10°	1050.2	1051.7	1053.6	1054.6	1053.6	1051.7	1050.2	1046.9	1043.0	1039.1	1036.2
12.5°	1055.1	1056.5	1058.9	1058.4	1058.9	1056.5	1055.1	1050.2	1045.9	1040.6	1036.2
15°	1051.7	1053.6	1056.0	1057.0	1056.0	1053.6	1051.7	1046.9	1043.0	1037.2	1032.9
17.5°	1041.1	1044.0	1045.4	1046.9	1045.4	1044.0	1041.1	1037.2	1031.9	1027.1	1022.7
20°	1026.6	1028.5	1030.5	1030.9	1030.5	1028.5	1026.6	1022.3	1014.0	1013.1	1009.7
22.5°	1005.8	1007.3	1011.6	1010.2	1011.6	1007.3	1005.8	1002.0	999.1	993.8	990.4
25°	975.9	977.4	977.8	978.3	977.8	977.4	975.9	972.5	969.6	965.8	963.8
27.5°	924.3	924.3	925.2	925.7	925.2	924.3	924.3	921.8	919.9	918.0	916.1
30°	846.1	846.1	846.1	848.5	846.1	846.1	846.1	845.6	845.6	846.1	846.1
32.5°	755.8	754.9	753.9	754.9	753.9	754.9	755.8	756.3	755.8	757.3	759.7
35°	653.5	653.0	654.5	652.5	654.5	653.0	653.5	653.5	655.4	657.4	657.8
37.5°	555.5	554.6	556.5	554.6	556.5	554.6	555.5	555.0	554.6	555.5	554.1
40°	462.4	463.3	463.3	467.2	463.3	463.3	462.4	461.4	458.0	456.1	454.2
42.5°	373.1	376.0	375.0	377.9	375.0	376.0	373.1	371.2	367.3	363.9	361.0
45°	288.6	290.6	290.6	291.5	290.6	290.6	288.6	286.7	283.3	280.4	278.5
47.5°	221.5	221.5	221.5	222.0	221.5	221.5	221.5	218.1	217.2	215.3	212.8
50°	168.4	168.9	169.4	169.9	169.4	168.9	168.4	167.5	167.0	166.0	165.5
52.5°	129.3	129.8	128.9	129.8	128.9	129.8	129.3	129.8	128.4	128.4	127.9
55°	98.0	97.5	98.0	98.5	98.0	97.5	98.0	98.0	97.5	97.5	97.5
57.5°	71.9	70.9	70.9	70.9	70.9	70.9	71.9	71.4	72.9	71.9	72.4
60°	53.6	54.1	54.1	54.5	54.1	54.1	53.6	54.5	54.5	55.0	55.0
62.5°	39.6	41.0	40.1	41.0	40.1	41.0	39.6	40.1	40.1	40.5	41.0
65°	25.6	25.6	25.6	26.1	25.6	25.6	25.6	26.1	26.5	26.1	27.5
67.5°	17.4	17.9	18.8	18.3	18.8	17.9	17.4	17.9	17.9	19.3	18.8
70°	14.0	12.6	12.6	14.0	12.6	12.6	14.0	13.0	12.6	13.5	13.0
72.5°	8.2	7.2	8.2	8.2	8.2	7.2	8.2	7.2	7.7	7.7	8.7
75°	4.4	3.9	3.4	4.8	3.4	3.9	4.4	4.4	4.4	4.4	4.8
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: P245906

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5
2.5°	998.6	997.1	997.6	994.7	994.7	993.8	994.3	991.8	990.9	989.9	991.4
5°	1013.1	1010.7	1008.7	1004.4	1002.0	999.1	997.6	993.8	990.4	987.5	987.0
7.5°	1024.7	1019.3	1016.0	1010.2	1005.8	1002.5	997.6	992.3	988.0	984.1	981.2
10°	1029.5	1024.2	1018.9	1011.6	1006.8	1000.5	995.7	988.9	983.2	977.8	974.5
12.5°	1030.0	1023.2	1018.4	1010.2	1003.9	997.1	991.8	984.1	977.4	972.0	966.7
15°	1025.6	1019.3	1013.5	1004.9	998.6	992.3	986.1	977.8	971.6	965.3	961.4
17.5°	1016.0	1010.2	1003.4	995.2	989.4	983.6	976.9	970.1	962.9	956.1	951.3
20°	1003.4	997.1	991.4	983.2	978.3	972.0	965.8	958.5	952.7	946.0	940.7
22.5°	984.6	978.8	973.5	968.7	960.9	956.1	951.8	943.6	937.8	931.5	925.7
25°	957.6	951.8	947.4	941.6	938.3	933.0	928.6	921.4	916.1	910.3	905.4
27.5°	913.2	909.8	907.4	904.0	901.1	898.7	896.3	890.5	886.6	881.3	876.5
30°	846.6	846.1	844.6	843.2	845.1	845.1	845.1	844.2	840.8	836.9	833.5
32.5°	761.1	762.1	764.0	765.5	769.3	773.7	777.5	779.5	779.5	777.1	775.6
35°	659.3	660.7	663.6	667.5	672.3	677.6	686.3	688.3	689.7	689.7	687.8
37.5°	553.6	553.1	556.0	559.4	562.3	566.1	572.4	573.9	576.3	575.3	573.4
40°	450.8	448.4	447.4	448.4	451.8	450.3	451.8	450.8	450.8	447.4	447.4
42.5°	355.7	352.8	350.9	349.4	349.4	346.0	343.6	341.2	339.8	337.4	336.9
45°	274.2	270.8	268.4	267.4	265.9	261.6	258.7	255.8	252.4	251.5	251.9
47.5°	212.8	209.5	208.5	206.1	203.7	201.3	199.3	196.0	195.5	193.5	195.5
50°	164.1	163.1	161.7	160.7	159.3	157.3	155.4	153.5	152.5	152.5	153.0
52.5°	127.4	127.9	126.4	125.0	124.0	124.0	121.6	121.1	121.1	119.2	121.1
55°	97.5	97.0	97.5	96.5	96.5	95.1	95.1	93.6	93.6	92.2	93.2
57.5°	71.4	72.4	71.4	71.9	72.9	71.4	70.9	69.5	70.5	69.5	70.0
60°	55.5	55.5	55.5	55.0	55.0	54.5	54.5	54.1	54.1	53.1	54.1
62.5°	41.0	41.5	41.5	41.5	42.0	41.5	41.0	41.5	41.0	41.0	41.5
65°	27.0	27.5	27.5	27.0	28.0	27.0	27.5	28.0	28.5	28.0	28.5
67.5°	18.3	18.3	18.8	19.3	18.8	19.3	19.8	19.3	19.8	20.8	19.8
70°	13.5	14.0	14.0	13.5	13.0	13.5	13.0	14.5	14.5	14.5	15.4
72.5°	8.7	8.7	8.2	8.2	8.2	8.2	8.2	9.7	8.7	8.2	9.2
75°	4.8	5.3	5.3	3.9	4.4	5.3	3.9	4.4	5.8	4.8	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



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5	988.5
2.5°	987.5	987.5	987.0	986.1	984.1	984.1	983.6	982.2	981.2	980.7	980.7
5°	982.7	980.7	978.8	973.5	973.5	972.5	969.6	967.7	966.7	964.3	963.4
7.5°	978.3	972.5	969.1	965.8	961.4	959.5	956.1	954.7	951.3	948.9	947.4
10°	967.7	963.8	959.5	954.2	950.8	947.0	943.1	940.2	935.9	933.4	931.5
12.5°	960.5	954.7	950.8	945.0	939.2	935.9	930.5	927.2	922.8	918.0	915.1
15°	953.7	947.4	942.1	935.9	929.6	925.7	919.4	915.6	909.3	904.5	901.1
17.5°	943.6	938.3	932.5	924.7	919.0	914.1	907.4	902.6	896.8	890.5	887.1
20°	933.0	926.7	920.9	913.2	907.4	901.6	894.8	889.5	882.8	877.0	873.1
22.5°	919.0	911.7	906.9	899.2	892.4	886.1	879.9	873.6	867.3	862.5	858.1
25°	898.7	891.0	885.7	879.4	873.1	868.3	860.6	856.7	850.4	846.1	841.7
27.5°	869.7	863.9	859.1	852.8	847.5	843.7	837.9	834.0	828.7	824.8	821.5
30°	827.3	822.4	818.1	811.8	808.0	804.6	799.3	795.9	792.0	787.7	786.7
32.5°	770.3	766.4	762.1	757.8	754.9	752.9	748.6	746.6	742.8	740.4	738.0
35°	684.4	681.0	678.6	676.7	675.7	676.2	675.2	677.2	678.1	677.6	678.1
37.5°	571.9	570.0	571.0	572.4	577.2	583.5	589.3	598.0	603.8	609.6	614.9
40°	446.5	447.9	451.8	460.4	473.0	487.0	500.0	516.4	532.8	544.4	555.0
42.5°	336.9	341.2	350.9	363.4	382.3	403.0	423.3	447.4	467.2	486.5	500.0
45°	253.4	259.2	271.7	289.1	309.9	334.0	359.6	386.6	410.3	430.0	445.0
47.5°	197.4	202.7	215.3	233.6	259.2	284.3	310.8	338.8	363.4	382.7	395.8
50°	155.9	162.6	173.7	193.1	218.6	245.2	272.7	300.2	323.4	339.8	351.4
52.5°	122.6	128.9	139.5	159.8	185.8	212.4	237.9	265.0	285.2	301.2	308.9
55°	95.1	100.9	112.0	128.9	153.5	179.5	205.1	228.3	247.1	258.7	265.9
57.5°	72.4	76.7	84.5	101.4	123.6	147.7	169.4	192.6	207.1	215.3	220.1
60°	55.0	58.4	66.6	79.6	99.9	120.7	139.0	156.4	168.0	174.7	179.5
62.5°	41.5	45.4	51.2	62.3	77.7	94.6	110.0	123.1	132.7	137.1	140.5
65°	28.5	31.4	35.7	44.4	57.4	69.5	81.6	91.2	97.5	102.3	104.3
67.5°	21.2	23.2	25.6	32.3	41.5	51.2	59.4	66.1	72.9	74.8	78.2
70°	15.9	17.4	19.8	24.6	29.9	36.7	43.4	47.3	52.1	55.5	56.5
72.5°	10.1	10.6	13.0	15.9	20.3	24.6	29.0	32.3	35.2	37.2	38.1
75°	5.8	8.7	8.7	11.6	14.5	16.4	19.3	21.7	23.2	24.6	24.6
77.5°	3.9	5.3	5.8	7.2	8.7	11.1	13.5	15.0	16.4	16.9	16.9
80°	3.4	3.9	3.9	5.3	6.3	8.2	9.7	10.1	11.1	11.6	12.6
82.5°	1.5	1.9	2.4	3.9	4.4	4.4	5.8	6.3	7.2	7.7	7.7
85°	0.5	1.0	1.0	1.5	2.4	2.9	3.4	3.9	4.4	4.4	4.8
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: P245906

CATALOG NUMBER: LD8B20D010 ER8B20840 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	988.5	988.5	988.5	988.5	988.5	988.5	988.5
2.5°	979.8	980.3	978.3	977.8	976.9	977.4	978.3
5°	961.9	962.4	960.5	958.5	958.5	958.0	958.5
7.5°	945.0	945.5	942.6	941.6	939.7	940.2	940.2
10°	928.1	928.1	923.8	923.3	921.8	921.4	921.4
12.5°	911.7	910.3	906.9	905.0	905.9	903.0	903.0
15°	897.2	894.8	890.5	889.0	886.6	885.7	885.7
17.5°	882.3	880.3	876.5	873.6	870.7	870.2	870.7
20°	867.8	865.9	861.0	859.1	856.7	856.7	855.7
22.5°	853.3	851.4	847.1	845.6	842.2	842.2	842.7
25°	838.3	836.9	832.1	831.1	830.6	828.7	829.7
27.5°	818.1	817.1	813.3	811.8	809.9	809.4	810.4
30°	780.9	779.5	776.6	775.1	771.8	772.2	773.2
32.5°	734.6	732.7	728.8	727.3	724.5	723.5	724.0
35°	676.7	675.2	671.9	671.9	669.0	668.0	669.0
37.5°	617.8	619.2	617.8	619.2	617.8	617.3	617.8
40°	562.3	567.6	568.5	573.9	571.9	574.8	574.3
42.5°	509.2	517.9	521.3	525.6	524.6	526.6	528.0
45°	455.6	462.9	466.2	469.1	469.6	470.6	471.1
47.5°	404.9	410.7	411.2	414.6	414.1	414.1	415.6
50°	357.6	361.5	362.5	364.9	363.0	362.0	362.5
52.5°	313.7	317.6	316.6	317.6	315.2	314.2	314.7
55°	268.8	270.8	270.8	270.8	267.9	267.9	267.9
57.5°	223.0	223.5	222.5	223.0	222.5	219.6	219.1
60°	181.0	181.0	180.5	181.0	179.5	178.1	178.1
62.5°	141.4	142.4	144.3	142.4	141.4	142.4	140.9
65°	105.7	107.6	107.1	108.1	107.6	107.6	106.7
67.5°	79.6	80.1	80.6	81.1	81.1	81.1	81.1
70°	58.4	59.9	59.4	59.4	59.4	59.4	62.3
72.5°	39.1	41.0	40.5	41.5	41.5	42.5	41.5
75°	26.5	28.5	27.5	29.0	28.5	27.5	29.9
77.5°	17.9	18.8	19.3	19.8	19.3	18.8	19.3
80°	12.6	13.5	13.0	13.5	13.5	13.5	14.0
82.5°	7.7	9.2	8.7	9.2	8.7	9.2	9.2
85°	5.3	5.8	4.8	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)