

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: P245012

Luminaire Tested: **LD8B20D010 ER8B20927 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245012
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 ER8B20927 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1703.2 lumens
Efficiency: N/A
Efficacy: 80.0 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

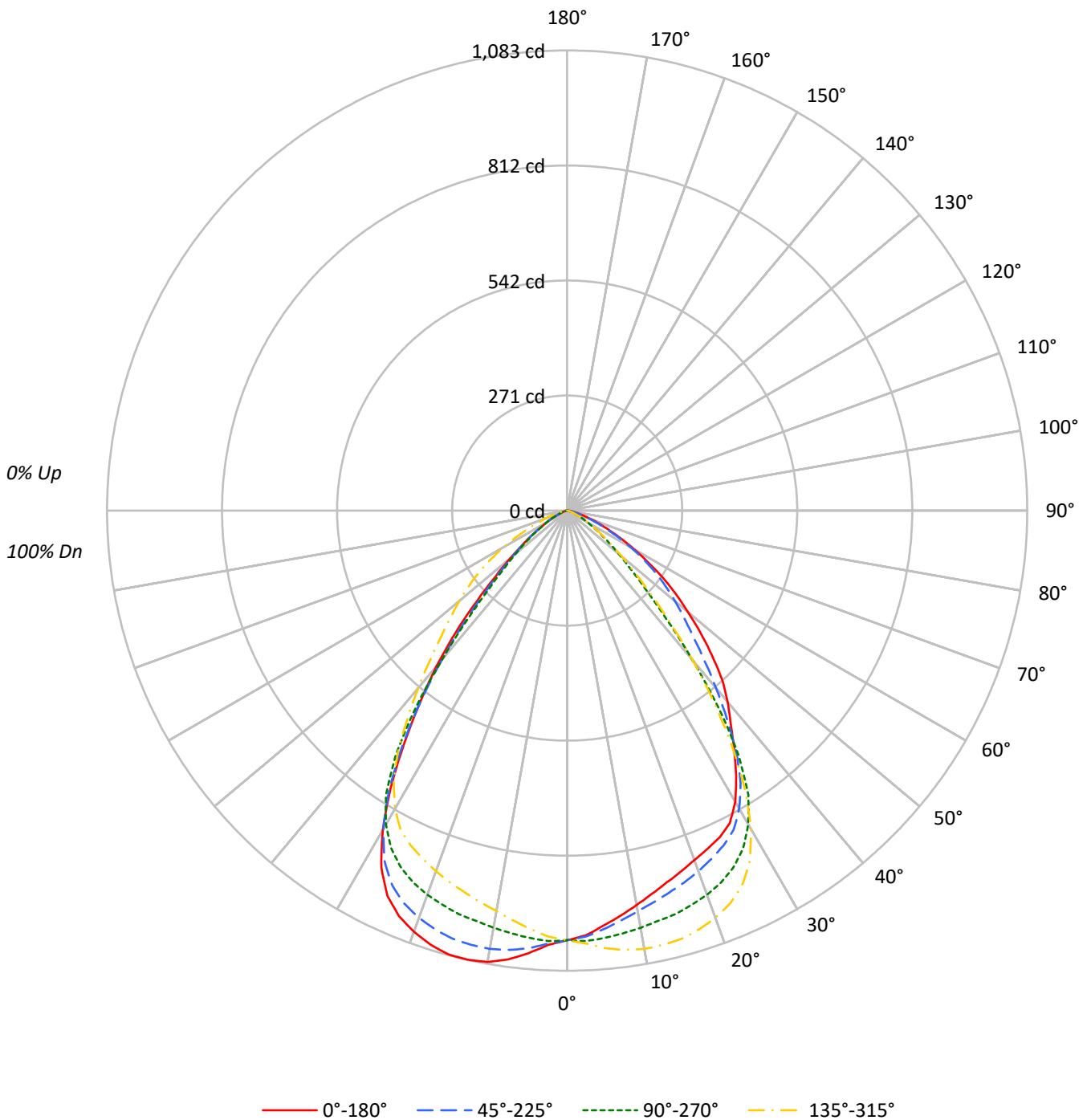
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245012

CATALOG NUMBER: LD8B20D010 ER8B20927 8LBSW0WMH

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°	96.2	5.7
10°-20°	278.7	16.4
20°-30°	422.0	24.8
30°-40°	423.0	24.8
40°-50°	265.6	15.6
50°-60°	141.5	8.3
60°-70°	58.2	3.4
70°-80°	15.4	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°	797.0	46.8
0°-40°	1219.9	71.6
0°-60°	1627.1	95.5
0°-90°	1703.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1703.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1011	1011	1011	1011	1011	
5°	981	1010	1046	1010	981	92
15°	906	984	1081	984	906	256
25°	849	926	1001	926	849	389
35°	684	704	668	704	684	429
45°	482	258	298	258	482	371
55°	274	95	101	95	274	244
65°	109	29	27	29	109	113
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°	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2
2.5°	1000.8	999.8	999.3	1000.4	1000.8	1002.8	1002.3	1003.3	1003.3	1003.7	1004.7
5°	980.6	980.1	980.6	980.6	982.6	984.5	984.0	985.5	986.5	989.0	989.9
7.5°	961.8	961.8	961.3	963.2	964.2	967.3	966.7	969.2	970.6	973.1	976.6
10°	942.5	942.5	943.0	944.6	945.0	949.5	949.5	952.9	954.9	957.4	961.8
12.5°	923.7	923.7	926.8	925.8	927.7	931.2	932.6	936.1	939.0	944.0	948.5
15°	906.0	906.0	907.0	909.4	910.9	915.4	917.9	921.8	925.3	930.2	936.7
17.5°	890.7	890.2	890.7	893.7	896.6	900.6	902.6	907.4	910.9	917.3	923.3
20°	875.4	876.4	876.4	878.8	880.8	885.7	887.7	893.1	897.1	903.0	910.0
22.5°	862.1	861.5	861.5	865.0	866.5	871.0	872.9	877.8	882.3	887.3	893.7
25°	848.7	847.7	849.7	850.2	851.2	856.1	857.6	861.1	865.5	870.0	876.4
27.5°	829.0	828.0	828.4	830.5	831.9	835.9	836.9	840.4	843.8	847.7	853.2
30°	791.0	790.0	789.5	792.9	794.5	797.4	798.9	804.8	805.7	810.2	814.2
32.5°	740.6	740.1	741.2	744.1	745.5	749.5	751.5	754.9	757.4	759.8	763.8
35°	684.3	683.3	684.3	687.3	687.3	690.8	692.2	693.7	693.2	693.7	692.7
37.5°	632.0	631.5	632.0	633.5	632.0	633.5	632.0	629.0	623.6	617.6	611.8
40°	587.6	588.0	585.1	587.0	581.6	580.6	575.2	567.8	557.0	545.1	528.3
42.5°	540.1	538.6	536.7	537.6	533.2	529.8	520.9	511.5	497.7	477.9	457.6
45°	481.8	481.4	480.4	479.9	477.0	473.5	466.1	455.2	439.9	419.6	395.4
47.5°	425.1	423.7	423.7	424.1	420.6	420.2	414.2	404.9	391.5	371.8	346.6
50°	370.8	370.3	371.2	373.3	370.8	369.8	365.8	359.4	347.6	330.9	307.1
52.5°	321.9	321.4	322.4	324.9	323.9	324.9	321.0	316.0	308.1	291.8	271.0
55°	274.0	274.0	274.0	277.0	277.0	277.0	275.0	272.0	264.6	252.8	233.6
57.5°	224.2	224.7	227.6	228.2	227.6	228.6	228.2	225.1	220.2	211.8	197.0
60°	182.1	182.1	183.7	185.2	184.6	185.2	185.2	183.7	178.8	171.8	160.0
62.5°	144.1	145.7	144.7	145.7	147.6	145.7	144.7	143.7	140.2	135.8	125.9
65°	109.1	110.1	110.1	110.6	109.6	110.1	108.1	106.6	104.6	99.8	93.4
67.5°	82.9	82.9	82.9	82.9	82.5	82.0	81.4	80.0	76.5	74.6	67.6
70°	63.7	60.8	60.8	60.8	60.8	61.2	59.7	57.8	56.8	53.3	48.4
72.5°	42.4	43.4	42.4	42.4	41.5	42.0	40.1	39.0	38.0	36.0	33.1
75°	30.6	28.1	29.1	29.6	28.1	29.1	27.1	25.2	25.2	23.7	22.2
77.5°	19.8	19.2	19.8	20.2	19.8	19.2	18.2	17.3	17.3	16.8	15.3
80°	14.3	13.8	13.8	13.8	13.4	13.8	12.8	12.8	11.8	11.4	10.4
82.5°	9.3	9.3	8.9	9.3	8.9	9.3	7.9	7.9	7.9	7.4	6.4
85°	6.4	5.4	5.4	6.0	5.0	6.0	5.4	5.0	4.5	4.5	3.9
87.5°	2.9	3.5	2.9	3.5	2.9	2.9	3.5	2.9	2.9	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



TEST NUMBER: P245012

CATALOG NUMBER: LD8B20D010 ER8B20927 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2
2.5°	1006.2	1006.8	1006.8	1008.7	1009.7	1010.1	1010.1	1014.2	1012.6	1013.6	1014.6
5°	991.9	994.8	995.8	995.8	1001.2	1003.3	1005.2	1009.7	1010.1	1013.2	1016.6
7.5°	978.1	981.6	983.5	988.0	991.5	994.8	1000.8	1003.7	1006.8	1010.7	1015.1
10°	964.8	968.7	972.7	976.2	981.6	986.0	989.9	996.9	1000.4	1005.8	1011.6
12.5°	952.0	957.4	960.9	966.7	972.7	976.6	982.6	989.0	994.4	999.8	1006.8
15°	940.6	947.0	951.0	957.4	963.8	969.2	975.6	983.5	987.5	993.9	1000.4
17.5°	928.2	935.1	940.0	946.0	953.9	959.8	965.2	973.1	978.1	984.9	992.4
20°	915.4	922.3	928.2	934.1	942.1	947.9	954.3	962.3	967.7	974.6	980.6
22.5°	900.1	906.5	912.9	919.8	927.7	932.6	940.0	947.0	952.9	959.3	965.2
25°	880.3	888.2	893.1	899.6	906.0	911.5	919.4	926.2	931.2	937.1	942.5
27.5°	857.1	863.1	867.0	872.4	878.8	883.8	889.6	896.6	901.6	907.0	910.9
30°	817.6	823.0	826.5	830.5	836.9	841.3	846.2	852.6	856.1	860.1	863.6
32.5°	765.8	770.2	772.2	775.1	779.6	784.0	787.9	793.5	794.9	797.4	797.4
35°	690.8	691.8	691.2	692.2	694.2	696.6	700.1	703.6	705.5	705.5	704.0
37.5°	602.9	596.9	590.5	585.6	584.1	583.1	585.1	586.6	588.5	589.5	587.0
40°	511.5	498.2	483.9	471.0	462.2	458.2	456.8	457.6	457.6	461.1	461.1
42.5°	433.0	412.3	391.0	371.8	359.0	349.1	344.6	344.6	345.2	347.6	349.1
45°	367.9	341.7	317.0	295.8	278.0	265.2	259.2	257.7	257.3	258.2	261.7
47.5°	317.9	290.8	265.2	239.0	220.2	207.3	201.9	199.9	198.0	199.9	200.5
50°	279.0	250.9	223.6	197.5	177.8	166.4	159.5	156.5	156.0	156.0	157.0
52.5°	243.4	217.2	190.1	163.5	142.6	131.8	125.4	124.0	122.0	124.0	124.0
55°	209.8	183.7	157.0	131.8	114.5	103.2	97.3	95.3	94.3	95.7	95.7
57.5°	173.4	151.1	126.4	103.7	86.4	78.5	74.0	71.6	71.1	72.1	71.1
60°	142.2	123.4	102.1	81.4	68.2	59.7	56.2	55.4	54.3	55.4	55.4
62.5°	112.6	96.8	79.4	63.7	52.3	46.5	42.4	42.4	42.0	42.0	42.4
65°	83.5	71.1	58.7	45.4	36.6	32.1	29.1	29.1	28.7	29.1	28.7
67.5°	60.8	52.3	42.4	33.1	26.2	23.7	21.7	20.2	21.3	20.2	19.8
70°	44.4	37.5	30.6	25.2	20.2	17.8	16.3	15.8	14.8	14.8	14.8
72.5°	29.6	25.2	20.7	16.3	13.4	10.8	10.4	9.3	8.4	8.9	9.9
75°	19.8	16.8	14.8	11.8	8.9	8.9	6.0	6.0	5.0	6.0	4.5
77.5°	13.8	11.4	8.9	7.4	6.0	5.4	3.9	3.9	3.5	3.5	3.5
80°	9.9	8.4	6.4	5.4	3.9	3.9	3.5	2.9	2.5	2.5	2.9
82.5°	6.0	4.5	4.5	3.9	2.5	2.0	1.5	2.0	1.0	1.0	1.0
85°	3.5	2.9	2.5	1.5	1.0	1.0	0.4	0.0	0.4	0.4	0.0
87.5°	2.0	1.0	1.0	0.4	0.0	0.4	0.4	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



TEST NUMBER: P245012

CATALOG NUMBER: LD8B20D010 ER8B20927 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2
2.5°	1017.1	1016.6	1017.6	1017.6	1020.6	1020.0	1021.5	1021.5	1020.6	1021.0	1023.0
5°	1020.6	1022.1	1025.0	1027.5	1031.9	1033.9	1036.4	1038.8	1039.3	1040.9	1042.3
7.5°	1020.6	1025.4	1028.9	1033.4	1039.3	1042.8	1048.2	1052.7	1054.6	1057.0	1060.1
10°	1018.6	1023.5	1029.9	1034.9	1042.3	1047.7	1053.1	1060.1	1063.0	1067.0	1070.9
12.5°	1014.6	1020.0	1026.9	1033.4	1041.8	1046.7	1053.7	1060.1	1064.5	1069.9	1074.4
15°	1008.7	1015.1	1021.5	1027.9	1036.8	1042.8	1049.2	1056.6	1061.0	1067.0	1070.9
17.5°	999.3	1006.2	1012.2	1018.1	1026.4	1033.4	1039.3	1046.2	1050.6	1055.6	1061.0
20°	988.0	994.4	1000.8	1005.8	1014.2	1020.0	1026.4	1032.9	1036.4	1037.4	1045.7
22.5°	973.7	978.1	983.0	990.9	995.8	1001.2	1007.2	1013.2	1016.6	1022.1	1025.0
25°	950.0	954.3	959.8	963.2	969.2	973.7	979.5	986.0	988.0	991.9	994.8
27.5°	916.9	919.4	921.8	924.8	928.2	930.7	934.1	937.1	939.0	941.1	943.0
30°	864.6	864.6	864.6	862.5	864.0	865.5	866.0	865.5	865.5	865.0	865.0
32.5°	795.4	791.4	787.1	783.1	781.5	779.6	778.6	777.2	774.7	773.2	773.7
35°	702.1	693.2	687.8	682.9	678.9	675.9	674.4	673.0	672.5	670.5	668.5
37.5°	585.6	579.2	575.2	572.3	568.8	565.8	566.3	566.8	568.2	567.3	567.8
40°	462.2	460.7	462.2	458.7	457.6	458.7	461.1	464.6	466.5	468.6	472.0
42.5°	351.6	354.0	357.5	357.5	359.0	360.9	363.8	369.3	372.3	375.8	379.7
45°	264.6	267.6	272.0	273.5	274.5	277.0	280.5	284.8	286.9	289.8	293.3
47.5°	204.0	205.9	208.4	210.8	213.3	214.3	217.7	217.7	220.2	222.2	223.2
50°	159.0	161.0	162.9	164.4	165.4	166.8	167.8	169.3	169.9	170.8	171.3
52.5°	124.4	126.9	126.9	127.9	129.4	130.8	130.4	130.8	131.3	131.3	132.9
55°	97.3	97.3	98.8	98.8	99.8	99.2	99.8	99.8	99.8	99.8	100.2
57.5°	72.6	73.1	74.6	73.6	73.1	74.0	73.1	74.0	73.6	74.6	73.1
60°	55.8	55.8	56.2	56.2	56.8	56.8	56.8	56.2	56.2	55.8	55.8
62.5°	42.0	42.4	43.0	42.4	42.4	42.4	42.0	42.0	41.5	40.9	40.9
65°	28.1	27.7	28.7	27.7	28.1	28.1	27.7	28.1	26.7	27.1	26.7
67.5°	20.2	19.8	19.2	19.8	19.2	18.8	18.8	19.2	19.8	18.2	18.2
70°	13.4	13.8	13.4	13.8	14.3	14.3	13.8	13.4	13.8	12.8	13.4
72.5°	8.4	8.4	8.4	8.4	8.4	8.9	8.9	8.9	7.9	7.9	7.4
75°	3.9	5.4	4.5	3.9	5.4	5.4	5.0	5.0	4.5	4.5	4.5
77.5°	3.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.5	2.9	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	0.4	1.0	1.0	0.4	1.0	1.0	0.4
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: P245012

CATALOG NUMBER: LD8B20D010 ER8B20927 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2
2.5°	1022.5	1022.1	1022.5	1023.0	1022.5	1022.1	1022.5	1023.0	1021.0	1020.6	1021.5
5°	1044.2	1044.2	1045.2	1045.7	1045.2	1044.2	1044.2	1042.3	1040.9	1039.3	1038.8
7.5°	1063.0	1064.0	1064.9	1065.5	1064.9	1064.0	1063.0	1060.1	1057.0	1054.6	1052.7
10°	1074.4	1075.8	1077.9	1078.8	1077.9	1075.8	1074.4	1070.9	1067.0	1063.0	1060.1
12.5°	1079.3	1080.8	1083.3	1082.8	1083.3	1080.8	1079.3	1074.4	1069.9	1064.5	1060.1
15°	1075.8	1077.9	1080.3	1081.2	1080.3	1077.9	1075.8	1070.9	1067.0	1061.0	1056.6
17.5°	1064.9	1068.0	1069.4	1070.9	1069.4	1068.0	1064.9	1061.0	1055.6	1050.6	1046.2
20°	1050.2	1052.1	1054.1	1054.6	1054.1	1052.1	1050.2	1045.7	1037.4	1036.4	1032.9
22.5°	1028.9	1030.4	1034.9	1033.4	1034.9	1030.4	1028.9	1025.0	1022.1	1016.6	1013.2
25°	998.3	999.8	1000.4	1000.8	1000.4	999.8	998.3	994.8	991.9	988.0	986.0
27.5°	945.4	945.4	946.5	947.0	946.5	945.4	945.4	943.0	941.1	939.0	937.1
30°	865.5	865.5	865.5	867.9	865.5	865.5	865.5	865.0	865.0	865.5	865.5
32.5°	773.2	772.2	771.2	772.2	771.2	772.2	773.2	773.7	773.2	774.7	777.2
35°	668.5	668.0	669.5	667.6	669.5	668.0	668.5	668.5	670.5	672.5	673.0
37.5°	568.2	567.3	569.2	567.3	569.2	567.3	568.2	567.8	567.3	568.2	566.8
40°	473.0	474.0	474.0	477.9	474.0	474.0	473.0	472.0	468.6	466.5	464.6
42.5°	381.7	384.6	383.6	386.6	383.6	384.6	381.7	379.7	375.8	372.3	369.3
45°	295.2	297.2	297.2	298.2	297.2	297.2	295.2	293.3	289.8	286.9	284.8
47.5°	226.6	226.6	226.6	227.1	226.6	226.6	226.6	223.2	222.2	220.2	217.7
50°	172.4	172.8	173.4	173.8	173.4	172.8	172.4	171.3	170.8	169.9	169.3
52.5°	132.3	132.9	131.8	132.9	131.8	132.9	132.3	132.9	131.3	131.3	130.8
55°	100.2	99.8	100.2	100.7	100.2	99.8	100.2	100.2	99.8	99.8	99.8
57.5°	73.6	72.6	72.6	72.6	72.6	72.6	73.6	73.1	74.6	73.6	74.0
60°	54.8	55.4	55.4	55.8	55.4	55.4	54.8	55.8	55.8	56.2	56.2
62.5°	40.5	42.0	40.9	42.0	40.9	42.0	40.5	40.9	40.9	41.5	42.0
65°	26.2	26.2	26.2	26.7	26.2	26.2	26.2	26.7	27.1	26.7	28.1
67.5°	17.8	18.2	19.2	18.8	19.2	18.2	17.8	18.2	18.2	19.8	19.2
70°	14.3	12.8	12.8	14.3	12.8	12.8	14.3	13.4	12.8	13.8	13.4
72.5°	8.4	7.4	8.4	8.4	8.4	7.4	8.4	7.4	7.9	7.9	8.9
75°	4.5	3.9	3.5	5.0	3.5	3.9	4.5	4.5	4.5	4.5	5.0
77.5°	2.9	2.5	3.5	3.5	3.5	2.5	2.9	2.5	2.9	2.5	2.9
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°	0.4	1.0	1.0	1.0	1.0	1.0	0.4	0.4	1.0	1.0	0.4
85°	0.0	1.0	0.4	0.4	0.4	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.4	0.0	0.0	0.4	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: P245012

CATALOG NUMBER: LD8B20D010 ER8B20927 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2
2.5°	1021.5	1020.0	1020.6	1017.6	1017.6	1016.6	1017.1	1014.6	1013.6	1012.6	1014.2
5°	1036.4	1033.9	1031.9	1027.5	1025.0	1022.1	1020.6	1016.6	1013.2	1010.1	1009.7
7.5°	1048.2	1042.8	1039.3	1033.4	1028.9	1025.4	1020.6	1015.1	1010.7	1006.8	1003.7
10°	1053.1	1047.7	1042.3	1034.9	1029.9	1023.5	1018.6	1011.6	1005.8	1000.4	996.9
12.5°	1053.7	1046.7	1041.8	1033.4	1026.9	1020.0	1014.6	1006.8	999.8	994.4	989.0
15°	1049.2	1042.8	1036.8	1027.9	1021.5	1015.1	1008.7	1000.4	993.9	987.5	983.5
17.5°	1039.3	1033.4	1026.4	1018.1	1012.2	1006.2	999.3	992.4	984.9	978.1	973.1
20°	1026.4	1020.0	1014.2	1005.8	1000.8	994.4	988.0	980.6	974.6	967.7	962.3
22.5°	1007.2	1001.2	995.8	990.9	983.0	978.1	973.7	965.2	959.3	952.9	947.0
25°	979.5	973.7	969.2	963.2	959.8	954.3	950.0	942.5	937.1	931.2	926.2
27.5°	934.1	930.7	928.2	924.8	921.8	919.4	916.9	910.9	907.0	901.6	896.6
30°	866.0	865.5	864.0	862.5	864.6	864.6	864.6	863.6	860.1	856.1	852.6
32.5°	778.6	779.6	781.5	783.1	787.1	791.4	795.4	797.4	797.4	794.9	793.5
35°	674.4	675.9	678.9	682.9	687.8	693.2	702.1	704.0	705.5	705.5	703.6
37.5°	566.3	565.8	568.8	572.3	575.2	579.2	585.6	587.0	589.5	588.5	586.6
40°	461.1	458.7	457.6	458.7	462.2	460.7	462.2	461.1	461.1	457.6	457.6
42.5°	363.8	360.9	359.0	357.5	357.5	354.0	351.6	349.1	347.6	345.2	344.6
45°	280.5	277.0	274.5	273.5	272.0	267.6	264.6	261.7	258.2	257.3	257.7
47.5°	217.7	214.3	213.3	210.8	208.4	205.9	204.0	200.5	199.9	198.0	199.9
50°	167.8	166.8	165.4	164.4	162.9	161.0	159.0	157.0	156.0	156.0	156.5
52.5°	130.4	130.8	129.4	127.9	126.9	126.9	124.4	124.0	124.0	122.0	124.0
55°	99.8	99.2	99.8	98.8	98.8	97.3	97.3	95.7	95.7	94.3	95.3
57.5°	73.1	74.0	73.1	73.6	74.6	73.1	72.6	71.1	72.1	71.1	71.6
60°	56.8	56.8	56.8	56.2	56.2	55.8	55.8	55.4	55.4	54.3	55.4
62.5°	42.0	42.4	42.4	42.4	43.0	42.4	42.0	42.4	42.0	42.0	42.4
65°	27.7	28.1	28.1	27.7	28.7	27.7	28.1	28.7	29.1	28.7	29.1
67.5°	18.8	18.8	19.2	19.8	19.2	19.8	20.2	19.8	20.2	21.3	20.2
70°	13.8	14.3	14.3	13.8	13.4	13.8	13.4	14.8	14.8	14.8	15.8
72.5°	8.9	8.9	8.4	8.4	8.4	8.4	8.4	9.9	8.9	8.4	9.3
75°	5.0	5.4	5.4	3.9	4.5	5.4	3.9	4.5	6.0	5.0	6.0
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.5	3.5	3.5	3.9
80°	2.5	2.0	2.0	1.5	2.0	2.0	2.0	2.9	2.5	2.5	2.9
82.5°	1.0	1.0	0.4	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	0.4	0.4	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: P245012

CATALOG NUMBER: LD8B20D010 ER8B20927 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2
2.5°	1010.1	1010.1	1009.7	1008.7	1006.8	1006.8	1006.2	1004.7	1003.7	1003.3	1003.3
5°	1005.2	1003.3	1001.2	995.8	995.8	994.8	991.9	989.9	989.0	986.5	985.5
7.5°	1000.8	994.8	991.5	988.0	983.5	981.6	978.1	976.6	973.1	970.6	969.2
10°	989.9	986.0	981.6	976.2	972.7	968.7	964.8	961.8	957.4	954.9	952.9
12.5°	982.6	976.6	972.7	966.7	960.9	957.4	952.0	948.5	944.0	939.0	936.1
15°	975.6	969.2	963.8	957.4	951.0	947.0	940.6	936.7	930.2	925.3	921.8
17.5°	965.2	959.8	953.9	946.0	940.0	935.1	928.2	923.3	917.3	910.9	907.4
20°	954.3	947.9	942.1	934.1	928.2	922.3	915.4	910.0	903.0	897.1	893.1
22.5°	940.0	932.6	927.7	919.8	912.9	906.5	900.1	893.7	887.3	882.3	877.8
25°	919.4	911.5	906.0	899.6	893.1	888.2	880.3	876.4	870.0	865.5	861.1
27.5°	889.6	883.8	878.8	872.4	867.0	863.1	857.1	853.2	847.7	843.8	840.4
30°	846.2	841.3	836.9	830.5	826.5	823.0	817.6	814.2	810.2	805.7	804.8
32.5°	787.9	784.0	779.6	775.1	772.2	770.2	765.8	763.8	759.8	757.4	754.9
35°	700.1	696.6	694.2	692.2	691.2	691.8	690.8	692.7	693.7	693.2	693.7
37.5°	585.1	583.1	584.1	585.6	590.5	596.9	602.9	611.8	617.6	623.6	629.0
40°	456.8	458.2	462.2	471.0	483.9	498.2	511.5	528.3	545.1	557.0	567.8
42.5°	344.6	349.1	359.0	371.8	391.0	412.3	433.0	457.6	477.9	497.7	511.5
45°	259.2	265.2	278.0	295.8	317.0	341.7	367.9	395.4	419.6	439.9	455.2
47.5°	201.9	207.3	220.2	239.0	265.2	290.8	317.9	346.6	371.8	391.5	404.9
50°	159.5	166.4	177.8	197.5	223.6	250.9	279.0	307.1	330.9	347.6	359.4
52.5°	125.4	131.8	142.6	163.5	190.1	217.2	243.4	271.0	291.8	308.1	316.0
55°	97.3	103.2	114.5	131.8	157.0	183.7	209.8	233.6	252.8	264.6	272.0
57.5°	74.0	78.5	86.4	103.7	126.4	151.1	173.4	197.0	211.8	220.2	225.1
60°	56.2	59.7	68.2	81.4	102.1	123.4	142.2	160.0	171.8	178.8	183.7
62.5°	42.4	46.5	52.3	63.7	79.4	96.8	112.6	125.9	135.8	140.2	143.7
65°	29.1	32.1	36.6	45.4	58.7	71.1	83.5	93.4	99.8	104.6	106.6
67.5°	21.7	23.7	26.2	33.1	42.4	52.3	60.8	67.6	74.6	76.5	80.0
70°	16.3	17.8	20.2	25.2	30.6	37.5	44.4	48.4	53.3	56.8	57.8
72.5°	10.4	10.8	13.4	16.3	20.7	25.2	29.6	33.1	36.0	38.0	39.0
75°	6.0	8.9	8.9	11.8	14.8	16.8	19.8	22.2	23.7	25.2	25.2
77.5°	3.9	5.4	6.0	7.4	8.9	11.4	13.8	15.3	16.8	17.3	17.3
80°	3.5	3.9	3.9	5.4	6.4	8.4	9.9	10.4	11.4	11.8	12.8
82.5°	1.5	2.0	2.5	3.9	4.5	4.5	6.0	6.4	7.4	7.9	7.9
85°	0.4	1.0	1.0	1.5	2.5	2.9	3.5	3.9	4.5	4.5	5.0
87.5°	0.4	0.4	0.0	0.4	1.0	1.0	2.0	2.0	2.0	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: P245012

CATALOG NUMBER: LD8B20D010 ER8B20927 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2	1011.2
2.5°	1002.3	1002.8	1000.8	1000.4	999.3	999.8	1000.8
5°	984.0	984.5	982.6	980.6	980.6	980.1	980.6
7.5°	966.7	967.3	964.2	963.2	961.3	961.8	961.8
10°	949.5	949.5	945.0	944.6	943.0	942.5	942.5
12.5°	932.6	931.2	927.7	925.8	926.8	923.7	923.7
15°	917.9	915.4	910.9	909.4	907.0	906.0	906.0
17.5°	902.6	900.6	896.6	893.7	890.7	890.2	890.7
20°	887.7	885.7	880.8	878.8	876.4	876.4	875.4
22.5°	872.9	871.0	866.5	865.0	861.5	861.5	862.1
25°	857.6	856.1	851.2	850.2	849.7	847.7	848.7
27.5°	836.9	835.9	831.9	830.5	828.4	828.0	829.0
30°	798.9	797.4	794.5	792.9	789.5	790.0	791.0
32.5°	751.5	749.5	745.5	744.1	741.2	740.1	740.6
35°	692.2	690.8	687.3	687.3	684.3	683.3	684.3
37.5°	632.0	633.5	632.0	633.5	632.0	631.5	632.0
40°	575.2	580.6	581.6	587.0	585.1	588.0	587.6
42.5°	520.9	529.8	533.2	537.6	536.7	538.6	540.1
45°	466.1	473.5	477.0	479.9	480.4	481.4	481.8
47.5°	414.2	420.2	420.6	424.1	423.7	423.7	425.1
50°	365.8	369.8	370.8	373.3	371.2	370.3	370.8
52.5°	321.0	324.9	323.9	324.9	322.4	321.4	321.9
55°	275.0	277.0	277.0	277.0	274.0	274.0	274.0
57.5°	228.2	228.6	227.6	228.2	227.6	224.7	224.2
60°	185.2	185.2	184.6	185.2	183.7	182.1	182.1
62.5°	144.7	145.7	147.6	145.7	144.7	145.7	144.1
65°	108.1	110.1	109.6	110.6	110.1	110.1	109.1
67.5°	81.4	82.0	82.5	82.9	82.9	82.9	82.9
70°	59.7	61.2	60.8	60.8	60.8	60.8	63.7
72.5°	40.1	42.0	41.5	42.4	42.4	43.4	42.4
75°	27.1	29.1	28.1	29.6	29.1	28.1	30.6
77.5°	18.2	19.2	19.8	20.2	19.8	19.2	19.8
80°	12.8	13.8	13.4	13.8	13.8	13.8	14.3
82.5°	7.9	9.3	8.9	9.3	8.9	9.3	9.3
85°	5.4	6.0	5.0	6.0	5.4	5.4	6.4
87.5°	3.5	2.9	2.9	3.5	2.9	3.5	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)