

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: P249206

Luminaire Tested: **LD8B175D010 ER8B175830 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175830 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17784.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

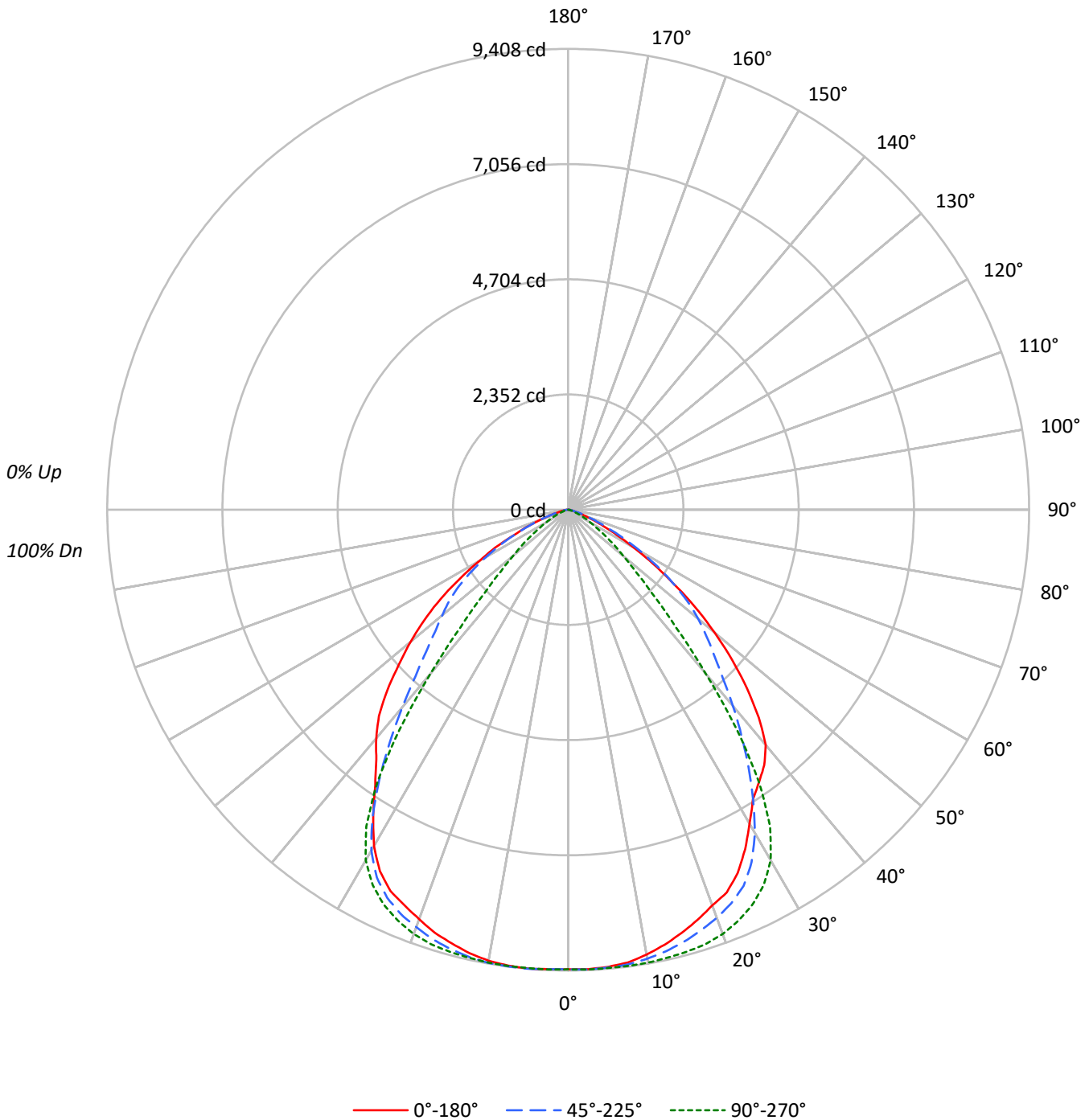
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	289343	289343	289343
5°	289978	290761	291074
10°	288759	293963	292702
15°	285561	298264	292639
20°	282130	302456	291882
25°	278470	302804	292179
30°	263447	294293	282276
35°	255581	255766	258424
40°	252416	175978	245320
45°	224914	105647	227989
50°	187017	70314	201514
55°	140258	48471	170859
60°	95050	32304	128908
65°	57336	20948	88565
70°	31790	11351	54492
75°	14404	4801	28201
80°	12519	5363	19676
85°	14258	7112	19636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	895.5	5.0
10°-20°	2600.6	14.6
20°-30°	3947.3	22.2
30°-40°	4145.8	23.3
40°-50°	3108.3	17.5
50°-60°	1994.3	11.2
60°-70°	853.1	4.8
70°-80°	201.6	1.1
80°-90°	37.5	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°	7443.4	41.9
0°-40°	11589.2	65.2
0°-60°	16691.8	93.9
0°-90°	17784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17784.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9383	9383	9383	9383	9383	
5°	9368	9383	9393	9408	9403	890
15°	8945	9131	9343	9282	9167	2523
25°	8184	8472	8900	8738	8587	3739
35°	6789	6412	6794	6714	6865	4261
45°	5158	4216	2423	4095	5228	3950
55°	2609	2609	902	2720	3178	2366
65°	786	927	287	1194	1214	839
75°	121	141	40	242	237	176
85°	40	25	20	40	56	43
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°	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2
2.5°	9388.2	9398.3	9393.3	9393.3	9388.2	9393.3	9393.3	9403.4	9403.4	9393.3	9388.2
5°	9368.0	9378.1	9378.1	9368.0	9368.0	9393.3	9378.1	9388.2	9388.2	9383.2	9383.2
7.5°	9322.8	9322.8	9342.9	9327.9	9327.9	9342.9	9337.8	9347.9	9358.0	9363.1	9363.1
10°	9222.0	9232.1	9237.2	9237.2	9242.2	9257.2	9267.3	9287.6	9297.5	9307.6	9312.7
12.5°	9096.2	9111.2	9116.3	9111.2	9126.4	9146.4	9171.7	9196.9	9212.0	9232.1	9247.3
15°	8945.0	8945.0	8955.1	8970.2	8980.3	9010.5	9035.7	9065.9	9106.2	9131.4	9156.6
17.5°	8778.8	8788.9	8804.0	8804.0	8824.2	8874.5	8889.6	8935.0	8980.3	9005.5	9055.9
20°	8597.5	8607.5	8622.7	8632.8	8657.9	8698.2	8728.4	8768.7	8819.1	8864.5	8914.8
22.5°	8456.4	8436.4	8446.3	8456.4	8481.7	8516.9	8552.2	8602.5	8652.9	8698.2	8748.6
25°	8184.5	8189.5	8204.7	8214.7	8245.0	8275.2	8315.5	8375.8	8421.2	8471.6	8526.9
27.5°	7816.8	7821.9	7847.0	7847.0	7872.2	7922.6	7947.7	7998.1	8058.6	8108.9	8174.5
30°	7398.8	7408.8	7408.8	7429.0	7444.0	7469.3	7494.4	7544.9	7575.0	7620.4	7711.1
32.5°	7016.0	7026.0	7021.0	7016.0	7000.9	6995.8	6990.8	7000.9	7011.0	7026.0	7061.3
35°	6789.4	6764.1	6744.1	6708.8	6668.5	6618.1	6572.8	6512.4	6456.9	6411.6	6361.3
37.5°	6572.8	6567.7	6537.5	6487.1	6406.5	6315.9	6210.2	6079.2	5948.2	5807.2	5671.3
40°	6270.6	6255.4	6230.3	6159.8	6069.1	5958.3	5817.3	5656.1	5444.5	5228.0	5006.4
42.5°	5756.8	5761.9	5731.7	5676.2	5590.7	5484.8	5338.8	5162.5	4935.9	4679.0	4391.9
45°	5157.5	5157.5	5147.4	5102.0	5041.7	4956.0	4845.2	4699.2	4477.6	4215.6	3908.4
47.5°	4532.9	4538.0	4522.8	4512.8	4487.6	4432.2	4351.6	4240.9	4084.7	3832.8	3525.6
50°	3898.4	3898.4	3923.5	3918.5	3918.5	3898.4	3863.1	3797.6	3661.6	3460.1	3173.1
52.5°	3263.7	3273.8	3289.0	3309.1	3334.2	3374.5	3334.2	3304.0	3218.4	3062.2	2815.5
55°	2608.9	2619.0	2644.2	2679.4	2709.7	2750.0	2760.0	2760.0	2714.7	2608.9	2422.6
57.5°	2049.9	2034.8	2055.0	2085.2	2125.5	2165.8	2196.0	2231.2	2226.2	2155.7	2004.6
60°	1541.2	1546.3	1561.3	1591.6	1621.8	1657.1	1697.4	1727.5	1742.7	1707.5	1611.7
62.5°	1123.2	1123.2	1143.3	1173.5	1188.6	1239.0	1264.2	1279.3	1294.4	1289.3	1228.9
65°	785.8	795.7	805.9	821.0	836.0	866.2	881.4	911.6	921.7	926.7	881.4
67.5°	554.1	538.9	549.0	559.0	574.2	594.4	624.6	624.6	639.6	639.6	609.4
70°	352.6	352.6	357.6	372.7	382.8	387.8	397.9	407.9	423.1	418.0	418.0
72.5°	236.7	231.7	236.7	241.8	246.8	261.9	261.9	266.9	277.0	282.1	261.9
75°	120.9	125.9	135.9	131.0	146.0	135.9	141.0	156.1	151.1	141.0	141.0
77.5°	100.7	100.7	100.7	95.8	105.7	105.7	100.7	110.8	105.7	105.7	100.7
80°	70.5	75.5	70.5	65.4	70.5	65.4	65.4	65.4	65.4	65.4	60.4
82.5°	55.5	45.4	50.4	45.4	50.4	50.4	45.4	40.3	40.3	45.4	40.3
85°	40.3	30.2	35.2	35.2	30.2	30.2	30.2	30.2	30.2	25.1	25.1
87.5°	25.1	15.2	15.2	15.2	20.1	20.1	20.1	15.2	20.1	20.1	10.1
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°	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2
2.5°	9398.3	9393.3	9403.4	9398.3	9398.3	9393.3	9398.3	9393.3	9403.4	9383.2	9388.2
5°	9398.3	9388.2	9393.3	9398.3	9403.4	9393.3	9393.3	9393.3	9403.4	9393.3	9398.3
7.5°	9378.1	9373.1	9388.2	9398.3	9393.3	9388.2	9398.3	9393.3	9403.4	9398.3	9408.3
10°	9337.8	9342.9	9353.0	9368.0	9373.1	9378.1	9388.2	9388.2	9403.4	9383.2	9393.3
12.5°	9277.4	9297.5	9322.8	9332.8	9353.0	9353.0	9363.1	9368.0	9378.1	9373.1	9388.2
15°	9201.9	9227.0	9257.2	9282.5	9307.6	9322.8	9337.8	9342.9	9358.0	9342.9	9347.9
17.5°	9111.2	9141.4	9186.7	9216.9	9257.2	9272.4	9292.5	9302.6	9317.7	9307.6	9312.7
20°	8985.3	9020.6	9070.9	9116.3	9141.4	9176.6	9201.9	9216.9	9227.0	9216.9	9222.0
22.5°	8809.0	8859.4	8924.9	8960.1	9010.5	9040.7	9045.8	9081.0	9106.2	9081.0	9091.1
25°	8602.5	8652.9	8703.3	8778.8	8824.2	8859.4	8894.7	8899.7	8924.9	8919.8	8914.8
27.5°	8260.0	8325.6	8411.1	8471.6	8532.0	8587.4	8627.7	8637.7	8663.0	8652.9	8657.9
30°	7791.6	7862.2	7942.8	8038.4	8124.1	8179.4	8229.8	8265.1	8290.2	8275.2	8270.1
32.5°	7126.8	7197.3	7283.0	7378.6	7479.4	7559.9	7620.4	7665.7	7695.9	7685.8	7660.7
35°	6366.3	6386.4	6441.9	6517.4	6602.9	6688.6	6744.1	6794.3	6829.6	6839.7	6839.7
37.5°	5585.6	5520.2	5479.9	5479.9	5530.2	5565.4	5615.8	5646.0	5701.5	5721.6	5736.7
40°	4830.1	4679.0	4538.0	4432.2	4361.7	4356.7	4356.7	4371.7	4422.1	4487.6	4548.1
42.5°	4155.2	3913.4	3696.9	3500.4	3359.5	3278.9	3243.6	3248.7	3289.0	3349.4	3450.0
45°	3616.3	3314.1	3042.1	2805.4	2614.0	2488.0	2427.7	2422.6	2452.8	2523.3	2634.2
47.5°	3198.3	2875.9	2568.6	2296.7	2090.2	1954.2	1883.7	1863.6	1883.7	1949.1	2080.1
50°	2850.7	2518.4	2201.0	1918.9	1697.4	1556.4	1490.8	1465.7	1490.8	1546.3	1677.1
52.5°	2528.3	2185.9	1888.7	1616.8	1380.0	1259.1	1188.6	1173.5	1188.6	1254.1	1359.9
55°	2155.7	1863.6	1571.4	1299.4	1093.0	972.1	916.6	901.6	916.6	977.1	1087.9
57.5°	1788.1	1536.2	1279.3	1032.5	856.3	750.4	700.1	679.9	715.2	755.4	886.4
60°	1445.5	1244.1	1027.4	810.9	664.9	569.1	528.8	523.8	533.9	584.3	674.9
62.5°	1133.3	967.0	795.7	619.5	498.6	458.3	407.9	403.0	413.0	443.2	513.8
65°	816.0	710.2	579.2	453.3	357.6	302.2	282.1	287.1	297.1	317.3	382.8
67.5°	569.1	493.6	403.0	317.3	246.8	221.6	201.5	196.4	201.5	236.7	272.0
70°	382.8	337.4	272.0	241.8	171.3	135.9	141.0	125.9	146.0	146.0	176.2
72.5°	251.8	221.6	181.3	141.0	120.9	95.8	95.8	90.7	100.7	105.7	131.0
75°	131.0	100.7	100.7	70.5	50.4	25.1	45.4	40.3	35.2	40.3	50.4
77.5°	90.7	75.5	70.5	55.5	50.4	40.3	40.3	40.3	40.3	45.4	50.4
80°	55.5	55.5	40.3	35.2	30.2	25.1	30.2	30.2	30.2	30.2	35.2
82.5°	35.2	30.2	30.2	25.1	25.1	20.1	20.1	20.1	20.1	20.1	30.2
85°	30.2	20.1	20.1	15.2	20.1	35.2	15.2	20.1	20.1	20.1	15.2
87.5°	10.1	15.2	15.2	15.2	10.1	5.1	10.1	15.2	15.2	25.1	20.1
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°	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2	9383.2
2.5°	9398.3	9403.4	9403.4	9398.3	9398.3	9388.2	9408.3	9393.3	9398.3	9418.4	9403.4
5°	9408.3	9413.4	9413.4	9408.3	9408.3	9408.3	9413.4	9413.4	9408.3	9403.4	9413.4
7.5°	9428.5	9423.5	9423.5	9413.4	9413.4	9403.4	9413.4	9398.3	9408.3	9398.3	9413.4
10°	9403.4	9408.3	9403.4	9398.3	9398.3	9393.3	9393.3	9378.1	9383.2	9368.0	9378.1
12.5°	9388.2	9383.2	9383.2	9373.1	9363.1	9353.0	9347.9	9332.8	9332.8	9297.5	9312.7
15°	9347.9	9353.0	9337.8	9317.7	9307.6	9282.5	9272.4	9252.2	9232.1	9207.0	9212.0
17.5°	9312.7	9297.5	9277.4	9257.2	9216.9	9196.9	9176.6	9146.4	9136.3	9106.2	9096.2
20°	9207.0	9196.9	9171.7	9136.3	9111.2	9065.9	9045.8	9015.6	8990.3	8960.1	8945.0
22.5°	9070.9	9060.8	9030.6	8995.4	8955.1	8935.0	8914.8	8859.4	8834.2	8804.0	8798.9
25°	8899.7	8884.6	8854.4	8814.1	8793.9	8738.5	8718.3	8678.0	8668.0	8637.7	8632.8
27.5°	8637.7	8617.6	8582.4	8532.0	8496.7	8461.5	8441.4	8411.1	8401.1	8370.8	8365.9
30°	8245.0	8219.7	8149.2	8129.1	8068.6	8033.4	8033.4	7993.1	7998.1	7978.0	7978.0
32.5°	7625.4	7585.2	7529.7	7489.4	7449.1	7429.0	7429.0	7413.9	7424.0	7424.0	7434.1
35°	6804.4	6749.1	6718.8	6693.7	6693.7	6713.7	6774.2	6789.4	6819.6	6844.7	6864.9
37.5°	5751.7	5746.8	5782.1	5812.3	5887.8	5973.4	6079.2	6169.9	6255.4	6315.9	6376.3
40°	4613.5	4739.5	4840.2	4981.3	5097.0	5263.2	5454.6	5610.8	5756.8	5862.7	5973.4
42.5°	3601.1	3762.3	3973.9	4180.3	4386.9	4613.5	4865.4	5081.9	5273.3	5419.4	5535.2
45°	2805.4	3027.0	3283.9	3545.8	3812.7	4094.8	4356.7	4578.3	4779.8	4930.9	5046.7
47.5°	2261.4	2503.2	2795.3	3082.4	3384.6	3681.7	3973.9	4165.3	4331.4	4452.3	4558.2
50°	1868.5	2125.5	2432.7	2760.0	3062.2	3359.5	3611.2	3797.6	3933.6	4039.4	4104.8
52.5°	1561.3	1833.3	2160.7	2488.0	2790.2	3062.2	3289.0	3429.9	3540.7	3616.3	3676.7
55°	1289.3	1551.3	1858.5	2165.8	2462.9	2719.7	2906.1	3011.9	3097.5	3142.8	3178.1
57.5°	1052.7	1294.4	1576.5	1858.5	2115.4	2327.0	2473.0	2578.7	2619.0	2654.3	2649.2
60°	826.1	1052.7	1309.5	1551.3	1772.9	1944.1	2049.9	2110.3	2140.5	2155.7	2145.6
62.5°	649.7	856.3	1052.7	1264.2	1425.4	1571.4	1672.2	1672.2	1687.2	1692.3	1707.5
65°	483.5	639.6	810.9	967.0	1097.9	1193.7	1249.1	1264.2	1284.4	1279.3	1269.2
67.5°	357.6	473.5	599.3	715.2	805.9	866.2	906.5	941.9	936.9	926.7	921.7
70°	246.8	322.4	433.2	503.7	569.1	629.6	639.6	644.7	649.7	654.8	644.7
72.5°	171.3	226.6	287.1	347.5	387.8	413.0	438.2	443.2	443.2	443.2	438.2
75°	85.6	115.8	171.3	196.4	231.7	241.8	261.9	261.9	277.0	256.8	251.8
77.5°	75.5	90.7	120.9	141.0	156.1	171.3	176.2	191.4	186.3	176.2	181.3
80°	45.4	55.5	75.5	85.6	105.7	110.8	115.8	120.9	115.8	120.9	120.9
82.5°	35.2	40.3	50.4	50.4	65.4	65.4	70.5	70.5	75.5	75.5	75.5
85°	20.1	35.2	30.2	60.4	40.3	40.3	50.4	60.4	50.4	50.4	60.4
87.5°	20.1	20.1	15.2	20.1	20.1	20.1	25.1	30.2	30.2	35.2	30.2
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: P249206

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9383.2	9383.2	9383.2	9383.2
2.5°	9398.3	9408.3	9393.3	9388.2
5°	9413.4	9413.4	9403.4	9403.4
7.5°	9413.4	9413.4	9398.3	9388.2
10°	9373.1	9373.1	9358.0	9347.9
12.5°	9297.5	9297.5	9292.5	9277.4
15°	9201.9	9201.9	9181.7	9166.7
17.5°	9070.9	9081.0	9055.9	9055.9
20°	8929.9	8924.9	8904.8	8894.7
22.5°	8783.9	8773.8	8768.7	8738.5
25°	8627.7	8617.6	8602.5	8587.4
27.5°	8360.8	8355.8	8340.6	8320.5
30°	7952.8	7947.7	7927.6	7927.6
32.5°	7424.0	7418.9	7398.8	7403.9
35°	6874.9	6895.1	6885.0	6864.9
37.5°	6416.6	6431.8	6441.9	6431.8
40°	6033.8	6079.2	6084.2	6094.3
42.5°	5625.9	5686.3	5706.5	5716.5
45°	5137.3	5192.7	5238.1	5228.0
47.5°	4638.7	4679.0	4719.3	4689.1
50°	4160.3	4185.4	4200.6	4200.6
52.5°	3707.0	3707.0	3701.9	3707.0
55°	3188.2	3188.2	3168.1	3178.1
57.5°	2644.2	2654.3	2639.1	2614.0
60°	2140.5	2115.4	2105.3	2090.2
62.5°	1667.2	1667.2	1631.9	1677.1
65°	1249.1	1234.0	1218.8	1213.8
67.5°	906.5	901.6	886.4	881.4
70°	639.6	619.5	614.5	604.4
72.5°	428.1	428.1	418.0	418.0
75°	261.9	236.7	231.7	236.7
77.5°	181.3	176.2	176.2	171.3
80°	120.9	115.8	125.9	110.8
82.5°	75.5	80.6	75.5	80.6
85°	50.4	60.4	55.5	55.5
87.5°	30.2	30.2	30.2	30.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)