

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: P249269

Luminaire Tested: **LD8B175D010 ER8B175940 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249269
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 ER8B175940 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16472.0 lumens
Efficiency: N/A
Efficacy: 93.0 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

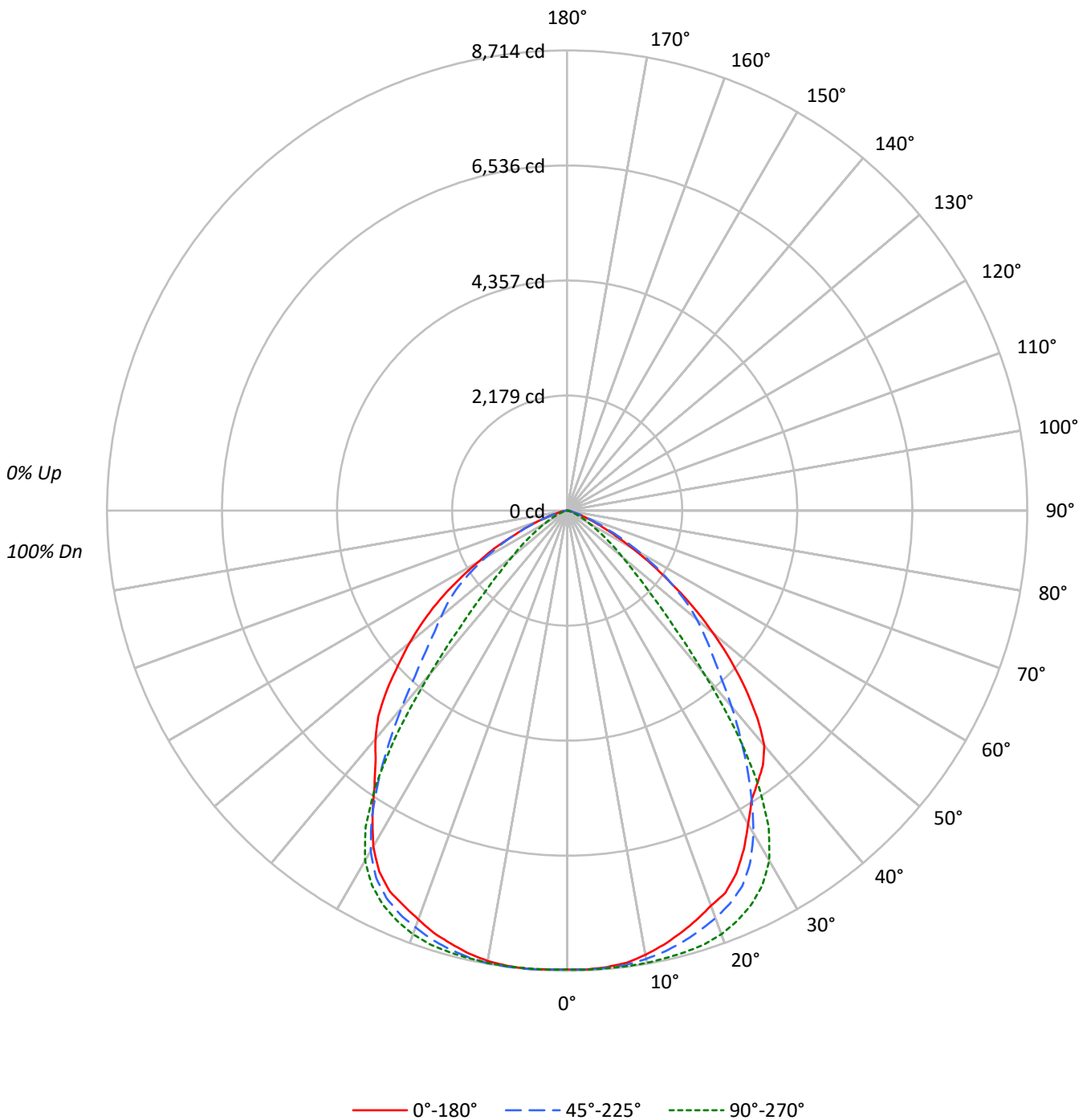
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	267998	267998	267998
5°	268586	269310	269601
10°	267455	272277	271109
15°	264494	276258	271048
20°	261318	280144	270349
25°	257927	280468	270624
30°	244013	272580	261453
35°	236725	236899	239361
40°	233795	162996	227221
45°	208321	97855	211169
50°	173220	65123	186648
55°	129915	44896	158252
60°	88038	29917	119398
65°	53104	19409	82027
70°	29446	10522	50471
75°	13344	4444	26128
80°	11596	4972	18220
85°	13197	6581	18186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	829.4	5.0
10°-20°	2408.8	14.6
20°-30°	3656.1	22.2
30°-40°	3840.0	23.3
40°-50°	2878.9	17.5
50°-60°	1847.2	11.2
60°-70°	790.2	4.8
70°-80°	186.7	1.1
80°-90°	34.7	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°	6894.3	41.9
0°-40°	10734.2	65.2
0°-60°	15460.4	93.9
0°-90°	16472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16472.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8691	8691	8691	8691	8691	
5°	8677	8691	8700	8714	8710	824
15°	8285	8458	8654	8598	8490	2337
25°	7581	7847	8243	8094	7954	3463
35°	6288	5939	6293	6218	6358	3947
45°	4777	3905	2244	3793	4842	3658
55°	2416	2416	835	2519	2944	2192
65°	728	858	266	1106	1124	777
75°	112	131	37	224	219	163
85°	37	23	19	37	51	39
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°	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0
2.5°	8695.6	8705.0	8700.3	8700.3	8695.6	8700.3	8700.3	8709.7	8709.7	8700.3	8695.6
5°	8676.9	8686.3	8686.3	8676.9	8676.9	8700.3	8686.3	8695.6	8695.6	8691.0	8691.0
7.5°	8635.0	8635.0	8653.6	8639.7	8639.7	8653.6	8648.9	8658.3	8667.7	8672.3	8672.3
10°	8541.6	8551.0	8555.7	8555.7	8560.4	8574.3	8583.7	8602.4	8611.6	8621.0	8625.7
12.5°	8425.1	8439.0	8443.7	8439.0	8453.1	8471.7	8495.1	8518.4	8532.4	8551.0	8565.0
15°	8285.1	8285.1	8294.4	8308.4	8317.8	8345.8	8369.1	8397.0	8434.4	8457.7	8481.0
17.5°	8131.2	8140.5	8154.5	8154.5	8173.2	8219.8	8233.8	8275.8	8317.8	8341.1	8387.8
20°	7963.3	7972.5	7986.6	7995.9	8019.2	8056.5	8084.5	8121.8	8168.5	8210.5	8257.1
22.5°	7832.6	7814.0	7823.2	7832.6	7856.0	7888.6	7921.3	7967.8	8014.5	8056.5	8103.2
25°	7580.7	7585.3	7599.4	7608.6	7636.7	7664.7	7702.0	7757.9	7799.9	7846.6	7897.9
27.5°	7240.2	7244.8	7268.1	7268.1	7291.4	7338.1	7361.4	7408.1	7464.1	7510.7	7571.4
30°	6853.0	6862.2	6862.2	6880.9	6894.9	6918.3	6941.6	6988.2	7016.2	7058.2	7142.2
32.5°	6498.4	6507.7	6503.0	6498.4	6484.4	6479.7	6475.0	6484.4	6493.8	6507.7	6540.3
35°	6288.5	6265.1	6246.5	6213.9	6176.5	6129.9	6087.9	6031.9	5980.6	5938.6	5892.0
37.5°	6087.9	6083.2	6055.2	6008.5	5933.9	5850.0	5752.0	5630.7	5509.4	5378.8	5252.9
40°	5808.0	5793.9	5770.6	5705.4	5621.3	5518.7	5388.1	5238.8	5042.9	4842.3	4637.1
42.5°	5332.1	5336.8	5308.8	5257.4	5178.2	5080.2	4944.9	4781.7	4571.8	4333.8	4067.9
45°	4777.0	4777.0	4767.6	4725.6	4669.7	4590.4	4487.8	4352.5	4147.3	3904.6	3620.0
47.5°	4198.5	4203.2	4189.2	4179.9	4156.5	4105.3	4030.6	3928.0	3783.4	3550.1	3265.5
50°	3610.8	3610.8	3634.1	3629.4	3629.4	3610.8	3578.1	3517.4	3391.5	3204.9	2939.0
52.5°	3022.9	3032.3	3046.3	3064.9	3088.2	3125.5	3088.2	3060.3	2980.9	2836.3	2607.8
55°	2416.5	2425.8	2449.1	2481.8	2509.8	2547.2	2556.4	2556.4	2514.4	2416.5	2243.9
57.5°	1898.7	1884.7	1903.4	1931.3	1968.7	2006.0	2034.0	2066.6	2061.9	1996.6	1856.7
60°	1427.5	1432.2	1446.1	1474.2	1502.2	1534.8	1572.1	1600.1	1614.1	1581.5	1492.8
62.5°	1040.3	1040.3	1058.9	1086.9	1100.9	1147.6	1170.9	1184.9	1198.9	1194.2	1138.3
65°	727.8	737.0	746.4	760.4	774.4	802.3	816.4	844.3	853.7	858.4	816.4
67.5°	513.2	499.2	508.5	517.8	531.8	550.5	578.5	578.5	592.4	592.4	564.5
70°	326.6	326.6	331.2	345.2	354.5	359.2	368.6	377.8	391.9	387.2	387.2
72.5°	219.3	214.6	219.3	224.0	228.6	242.6	242.6	247.2	256.6	261.3	242.6
75°	112.0	116.7	125.9	121.3	135.3	125.9	130.6	144.6	139.9	130.6	130.6
77.5°	93.3	93.3	93.3	88.7	97.9	97.9	93.3	102.6	97.9	97.9	93.3
80°	65.3	70.0	65.3	60.6	65.3	60.6	60.6	60.6	60.6	60.6	55.9
82.5°	51.4	42.0	46.7	42.0	46.7	46.7	42.0	37.3	37.3	42.0	37.3
85°	37.3	28.0	32.6	32.6	28.0	28.0	28.0	28.0	28.0	23.3	23.3
87.5°	23.3	14.0	14.0	14.0	18.6	18.6	18.6	14.0	18.6	18.6	9.4
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°	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0
2.5°	8705.0	8700.3	8709.7	8705.0	8705.0	8700.3	8705.0	8700.3	8709.7	8691.0	8695.6
5°	8705.0	8695.6	8700.3	8705.0	8709.7	8700.3	8700.3	8700.3	8709.7	8700.3	8705.0
7.5°	8686.3	8681.6	8695.6	8705.0	8700.3	8695.6	8705.0	8700.3	8709.7	8705.0	8714.2
10°	8648.9	8653.6	8663.0	8676.9	8681.6	8686.3	8695.6	8695.6	8709.7	8691.0	8700.3
12.5°	8593.0	8611.6	8635.0	8644.3	8663.0	8663.0	8672.3	8676.9	8686.3	8681.6	8695.6
15°	8523.0	8546.3	8574.3	8597.7	8621.0	8635.0	8648.9	8653.6	8667.7	8653.6	8658.3
17.5°	8439.0	8467.0	8509.0	8537.0	8574.3	8588.3	8606.9	8616.3	8630.3	8621.0	8625.7
20°	8322.4	8355.1	8401.7	8443.7	8467.0	8499.6	8523.0	8537.0	8546.3	8537.0	8541.6
22.5°	8159.1	8205.8	8266.4	8299.1	8345.8	8373.7	8378.4	8411.1	8434.4	8411.1	8420.4
25°	7967.8	8014.5	8061.2	8131.2	8173.2	8205.8	8238.5	8243.2	8266.4	8261.8	8257.1
27.5°	7650.6	7711.3	7790.6	7846.6	7902.5	7953.9	7991.2	8000.5	8023.9	8014.5	8019.2
30°	7216.8	7282.2	7356.8	7445.4	7524.7	7576.0	7622.7	7655.3	7678.6	7664.7	7660.0
32.5°	6601.1	6666.3	6745.7	6834.3	6927.6	7002.2	7058.2	7100.2	7128.2	7118.8	7095.5
35°	5896.7	5915.3	5966.6	6036.6	6115.8	6195.2	6246.5	6293.1	6325.7	6335.1	6335.1
37.5°	5173.5	5112.9	5075.6	5075.6	5122.2	5154.8	5201.5	5229.5	5280.8	5299.5	5313.5
40°	4473.7	4333.8	4203.2	4105.3	4040.0	4035.3	4035.3	4049.2	4095.9	4156.5	4212.6
42.5°	3848.7	3624.7	3424.1	3242.2	3111.6	3037.0	3004.3	3009.0	3046.3	3102.3	3195.5
45°	3349.5	3069.6	2817.7	2598.4	2421.1	2304.5	2248.6	2243.9	2271.8	2337.1	2439.9
47.5°	2962.3	2663.7	2379.1	2127.2	1936.0	1810.0	1744.7	1726.1	1744.7	1805.3	1926.7
50°	2640.4	2332.6	2038.6	1777.4	1572.1	1441.5	1380.8	1357.5	1380.8	1432.2	1553.4
52.5°	2341.8	2024.6	1749.4	1497.5	1278.2	1166.2	1100.9	1086.9	1100.9	1161.6	1259.6
55°	1996.6	1726.1	1455.5	1203.6	1012.4	900.4	849.0	835.1	849.0	905.1	1007.7
57.5°	1656.1	1422.8	1184.9	956.3	793.1	695.0	648.5	629.7	662.4	699.7	821.1
60°	1338.8	1152.3	951.6	751.1	615.8	527.1	489.8	485.1	494.5	541.2	625.1
62.5°	1049.7	895.7	737.0	573.8	461.8	424.5	377.8	373.3	382.5	410.5	475.9
65°	755.8	657.8	536.5	419.8	331.2	279.9	261.3	266.0	275.2	293.9	354.5
67.5°	527.1	457.2	373.3	293.9	228.6	205.2	186.6	181.9	186.6	219.3	251.9
70°	354.5	312.5	251.9	224.0	158.7	125.9	130.6	116.7	135.3	135.3	163.2
72.5°	233.2	205.2	167.9	130.6	112.0	88.7	88.7	84.0	93.3	97.9	121.3
75°	121.3	93.3	93.3	65.3	46.7	23.3	42.0	37.3	32.6	37.3	46.7
77.5°	84.0	70.0	65.3	51.4	46.7	37.3	37.3	37.3	37.3	42.0	46.7
80°	51.4	51.4	37.3	32.6	28.0	23.3	28.0	28.0	28.0	28.0	32.6
82.5°	32.6	28.0	28.0	23.3	23.3	18.6	18.6	18.6	18.6	18.6	28.0
85°	28.0	18.6	18.6	14.0	18.6	32.6	14.0	18.6	18.6	18.6	14.0
87.5°	9.4	14.0	14.0	14.0	9.4	4.7	9.4	14.0	14.0	23.3	18.6
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°	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0	8691.0
2.5°	8705.0	8709.7	8709.7	8705.0	8705.0	8695.6	8714.2	8700.3	8705.0	8723.6	8709.7
5°	8714.2	8718.9	8718.9	8714.2	8714.2	8714.2	8718.9	8718.9	8714.2	8709.7	8718.9
7.5°	8733.0	8728.3	8728.3	8718.9	8718.9	8709.7	8718.9	8705.0	8714.2	8705.0	8718.9
10°	8709.7	8714.2	8709.7	8705.0	8705.0	8700.3	8700.3	8686.3	8691.0	8676.9	8686.3
12.5°	8695.6	8691.0	8691.0	8681.6	8672.3	8663.0	8658.3	8644.3	8644.3	8611.6	8625.7
15°	8658.3	8663.0	8648.9	8630.3	8621.0	8597.7	8588.3	8569.6	8551.0	8527.7	8532.4
17.5°	8625.7	8611.6	8593.0	8574.3	8537.0	8518.4	8499.6	8471.7	8462.3	8434.4	8425.1
20°	8527.7	8518.4	8495.1	8462.3	8439.0	8397.0	8378.4	8350.5	8327.1	8299.1	8285.1
22.5°	8401.7	8392.3	8364.4	8331.7	8294.4	8275.8	8257.1	8205.8	8182.4	8154.5	8149.8
25°	8243.2	8229.1	8201.2	8163.8	8145.1	8093.9	8075.1	8037.8	8028.6	8000.5	7995.9
27.5°	8000.5	7981.9	7949.2	7902.5	7869.9	7837.3	7818.6	7790.6	7781.3	7753.2	7748.7
30°	7636.7	7613.3	7548.0	7529.4	7473.4	7440.7	7440.7	7403.4	7408.1	7389.5	7389.5
32.5°	7062.9	7025.6	6974.2	6936.9	6899.5	6880.9	6880.9	6866.9	6876.3	6876.3	6885.6
35°	6302.4	6251.2	6223.1	6199.8	6199.8	6218.4	6274.5	6288.5	6316.5	6339.8	6358.5
37.5°	5327.4	5322.8	5355.5	5383.5	5453.4	5532.8	5630.7	5714.7	5793.9	5850.0	5905.9
40°	4273.2	4389.8	4483.1	4613.8	4721.0	4874.9	5052.2	5196.8	5332.1	5430.1	5532.8
42.5°	3335.5	3484.8	3680.7	3871.9	4063.2	4273.2	4506.5	4707.0	4884.3	5019.6	5126.9
45°	2598.4	2803.7	3041.6	3284.2	3531.4	3792.7	4035.3	4240.5	4427.1	4567.1	4674.4
47.5°	2094.6	2318.5	2589.1	2855.0	3134.9	3410.1	3680.7	3858.0	4011.9	4123.9	4221.9
50°	1730.7	1968.7	2253.2	2556.4	2836.3	3111.6	3344.8	3517.4	3643.4	3741.4	3802.0
52.5°	1446.1	1698.0	2001.3	2304.5	2584.4	2836.3	3046.3	3176.9	3279.5	3349.5	3405.4
55°	1194.2	1436.9	1721.4	2006.0	2281.2	2519.1	2691.7	2789.7	2868.9	2910.9	2943.6
57.5°	975.0	1198.9	1460.2	1721.4	1959.3	2155.3	2290.6	2388.5	2425.8	2458.5	2453.8
60°	765.1	975.0	1212.9	1436.9	1642.1	1800.7	1898.7	1954.6	1982.6	1996.6	1987.3
62.5°	601.8	793.1	975.0	1170.9	1320.2	1455.5	1548.8	1548.8	1562.8	1567.5	1581.5
65°	447.8	592.4	751.1	895.7	1016.9	1105.6	1157.0	1170.9	1189.6	1184.9	1175.6
67.5°	331.2	438.5	555.1	662.4	746.4	802.3	839.7	872.4	867.7	858.4	853.7
70°	228.6	298.6	401.2	466.5	527.1	583.2	592.4	597.1	601.8	606.5	597.1
72.5°	158.7	209.9	266.0	321.9	359.2	382.5	405.9	410.5	410.5	410.5	405.9
75°	79.3	107.3	158.7	181.9	214.6	224.0	242.6	242.6	256.6	237.9	233.2
77.5°	70.0	84.0	112.0	130.6	144.6	158.7	163.2	177.3	172.6	163.2	167.9
80°	42.0	51.4	70.0	79.3	97.9	102.6	107.3	112.0	107.3	112.0	112.0
82.5°	32.6	37.3	46.7	46.7	60.6	60.6	65.3	65.3	70.0	70.0	70.0
85°	18.6	32.6	28.0	55.9	37.3	37.3	46.7	55.9	46.7	46.7	55.9
87.5°	18.6	18.6	14.0	18.6	18.6	18.6	23.3	28.0	28.0	32.6	28.0
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: P249269

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8691.0	8691.0	8691.0	8691.0
2.5°	8705.0	8714.2	8700.3	8695.6
5°	8718.9	8718.9	8709.7	8709.7
7.5°	8718.9	8718.9	8705.0	8695.6
10°	8681.6	8681.6	8667.7	8658.3
12.5°	8611.6	8611.6	8606.9	8593.0
15°	8523.0	8523.0	8504.3	8490.4
17.5°	8401.7	8411.1	8387.8	8387.8
20°	8271.1	8266.4	8247.8	8238.5
22.5°	8135.9	8126.5	8121.8	8093.9
25°	7991.2	7981.9	7967.8	7953.9
27.5°	7744.0	7739.3	7725.3	7706.7
30°	7366.1	7361.4	7342.8	7342.8
32.5°	6876.3	6871.6	6853.0	6857.7
35°	6367.7	6386.5	6377.1	6358.5
37.5°	5943.2	5957.3	5966.6	5957.3
40°	5588.7	5630.7	5635.4	5644.7
42.5°	5210.9	5266.8	5285.5	5294.8
45°	4758.3	4809.6	4851.7	4842.3
47.5°	4296.5	4333.8	4371.1	4343.1
50°	3853.3	3876.6	3890.7	3890.7
52.5°	3433.5	3433.5	3428.8	3433.5
55°	2953.0	2953.0	2934.3	2943.6
57.5°	2449.1	2458.5	2444.4	2421.1
60°	1982.6	1959.3	1950.0	1936.0
62.5°	1544.2	1544.2	1511.5	1553.4
65°	1157.0	1142.9	1128.9	1124.2
67.5°	839.7	835.1	821.1	816.4
70°	592.4	573.8	569.1	559.8
72.5°	396.5	396.5	387.2	387.2
75°	242.6	219.3	214.6	219.3
77.5°	167.9	163.2	163.2	158.7
80°	112.0	107.3	116.7	102.6
82.5°	70.0	74.7	70.0	74.7
85°	46.7	55.9	51.4	51.4
87.5°	28.0	28.0	28.0	28.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)