

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: P249539

Luminaire Tested: **LD8B175D010 ER8B175835 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249539
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 ER8B175835 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18381.0 lumens
Efficiency: N/A
Efficacy: 103.7 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

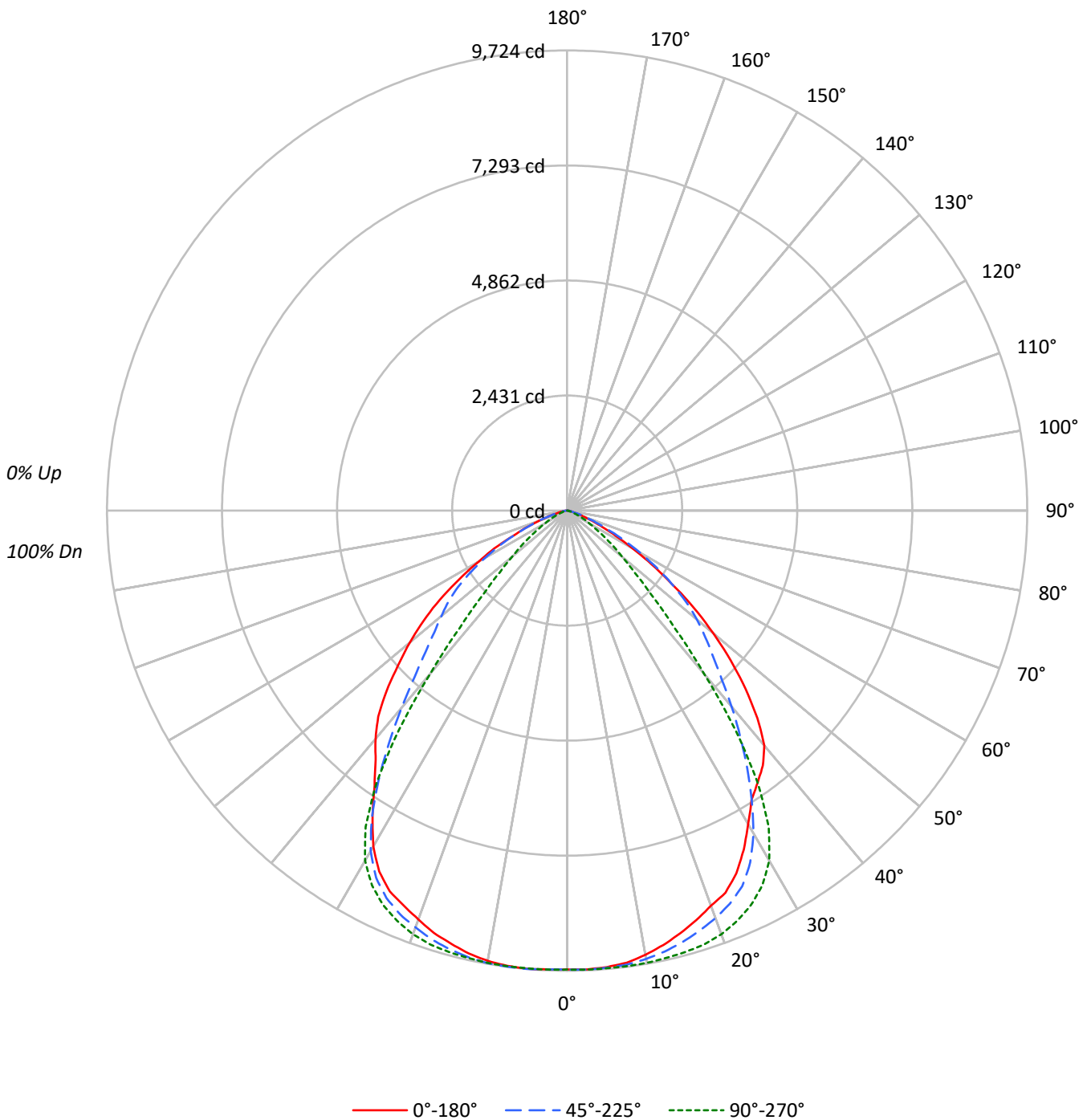
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	299057	299057	299057
5°	299713	300521	300846
10°	298454	303833	302527
15°	295145	308275	302462
20°	291603	312612	301681
25°	287817	312971	301988
30°	272292	304170	291754
35°	264161	264353	267101
40°	260890	181887	253556
45°	232463	109193	235642
50°	193292	72674	208279
55°	144968	50100	176590
60°	98238	33383	133238
65°	59255	21656	91535
70°	32854	11739	56314
75°	14893	4968	29154
80°	12946	5540	20333
85°	14754	7359	20273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	925.6	5.0
10°-20°	2687.9	14.6
20°-30°	4079.8	22.2
30°-40°	4285.0	23.3
40°-50°	3212.6	17.5
50°-60°	2061.3	11.2
60°-70°	881.8	4.8
70°-80°	208.3	1.1
80°-90°	38.8	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°	7693.3	41.9
0°-40°	11978.3	65.2
0°-60°	17252.1	93.9
0°-90°	18381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18381.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9698	9698	9698	9698	9698	
5°	9682	9698	9709	9724	9719	920
15°	9245	9438	9656	9594	9474	2608
25°	8459	8756	9198	9032	8876	3865
35°	7017	6627	7022	6939	7095	4404
45°	5331	4357	2504	4232	5404	4082
55°	2696	2696	932	2811	3285	2446
65°	812	958	297	1234	1254	867
75°	125	146	42	250	245	182
85°	42	26	21	42	57	44
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°	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2
2.5°	9703.4	9713.8	9708.6	9708.6	9703.4	9708.6	9708.6	9719.1	9719.1	9708.6	9703.4
5°	9682.5	9693.0	9693.0	9682.5	9682.5	9708.6	9693.0	9703.4	9703.4	9698.2	9698.2
7.5°	9635.8	9635.8	9656.5	9641.0	9641.0	9656.5	9651.3	9661.7	9672.2	9677.4	9677.4
10°	9531.6	9542.0	9547.2	9547.2	9552.5	9568.0	9578.4	9599.3	9609.7	9620.1	9625.3
12.5°	9401.5	9417.1	9422.3	9417.1	9432.7	9453.5	9479.6	9505.6	9521.3	9542.0	9557.7
15°	9245.2	9245.2	9255.7	9271.3	9281.8	9313.0	9339.0	9370.2	9411.8	9437.9	9463.9
17.5°	9073.5	9084.0	9099.5	9099.5	9120.4	9172.4	9188.0	9234.9	9281.8	9307.8	9359.9
20°	8886.2	8896.5	8912.1	8922.6	8948.6	8990.2	9021.4	9063.1	9115.2	9162.1	9214.0
22.5°	8740.3	8719.6	8729.9	8740.3	8766.4	8802.9	8839.3	8891.3	8943.4	8990.2	9042.3
25°	8459.2	8464.4	8480.1	8490.4	8521.7	8553.0	8594.6	8657.0	8703.9	8756.0	8813.2
27.5°	8079.2	8084.5	8110.5	8110.5	8136.4	8188.5	8214.5	8266.6	8329.2	8381.1	8448.9
30°	7647.2	7657.5	7657.5	7678.4	7693.9	7720.0	7746.0	7798.1	7829.3	7876.2	7970.0
32.5°	7251.6	7261.9	7256.7	7251.6	7235.9	7230.7	7225.5	7235.9	7246.3	7261.9	7298.3
35°	7017.3	6991.2	6970.4	6934.0	6892.4	6840.3	6793.4	6731.0	6673.7	6626.8	6574.8
37.5°	6793.4	6788.2	6757.0	6704.9	6621.6	6527.9	6418.7	6283.3	6147.9	6002.1	5861.7
40°	6481.1	6465.4	6439.4	6366.6	6272.8	6158.3	6012.6	5846.0	5627.3	5403.5	5174.5
42.5°	5950.1	5955.3	5924.1	5866.8	5778.3	5668.9	5518.0	5335.8	5101.6	4836.0	4539.4
45°	5330.6	5330.6	5320.2	5273.3	5210.9	5122.4	5007.9	4856.9	4627.9	4357.1	4039.6
47.5°	4685.1	4690.3	4674.7	4664.3	4638.2	4581.0	4497.7	4383.2	4221.8	3961.5	3643.9
50°	4029.2	4029.2	4055.2	4050.0	4050.0	4029.2	3992.8	3925.1	3784.6	3576.3	3279.6
52.5°	3373.3	3383.7	3399.4	3420.1	3446.1	3487.8	3446.1	3414.9	3326.4	3165.0	2910.0
55°	2696.5	2707.0	2733.0	2769.4	2800.7	2842.4	2852.7	2852.7	2805.8	2696.5	2503.9
57.5°	2118.7	2103.1	2124.0	2155.2	2196.8	2238.5	2269.7	2306.1	2300.9	2228.0	2071.9
60°	1592.9	1598.2	1613.7	1645.0	1676.2	1712.7	1754.3	1785.5	1801.2	1764.8	1665.8
62.5°	1160.9	1160.9	1181.7	1212.9	1228.5	1280.6	1306.6	1322.3	1337.8	1332.6	1270.2
65°	812.1	822.5	832.9	848.6	864.1	895.3	911.0	942.2	952.6	957.9	911.0
67.5°	572.7	557.0	567.5	577.8	593.4	614.3	645.5	645.5	661.1	661.1	629.9
70°	364.4	364.4	369.6	385.2	395.6	400.8	411.3	421.6	437.3	432.1	432.1
72.5°	244.7	239.5	244.7	249.9	255.1	270.7	270.7	275.9	286.3	291.6	270.7
75°	125.0	130.2	140.5	135.4	150.9	140.5	145.7	161.4	156.2	145.7	145.7
77.5°	104.1	104.1	104.1	99.0	109.3	109.3	104.1	114.5	109.3	109.3	104.1
80°	72.9	78.1	72.9	67.6	72.9	67.6	67.6	67.6	67.6	67.6	62.4
82.5°	57.3	46.9	52.1	46.9	52.1	52.1	46.9	41.7	41.7	46.9	41.7
85°	41.7	31.2	36.4	36.4	31.2	31.2	31.2	31.2	31.2	26.0	26.0
87.5°	26.0	15.7	15.7	15.7	20.8	20.8	20.8	15.7	20.8	20.8	10.4
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°	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2
2.5°	9713.8	9708.6	9719.1	9713.8	9713.8	9708.6	9713.8	9708.6	9719.1	9698.2	9703.4
5°	9713.8	9703.4	9708.6	9713.8	9719.1	9708.6	9708.6	9708.6	9719.1	9708.6	9713.8
7.5°	9693.0	9687.7	9703.4	9713.8	9708.6	9703.4	9713.8	9708.6	9719.1	9713.8	9724.2
10°	9651.3	9656.5	9667.0	9682.5	9687.7	9693.0	9703.4	9703.4	9719.1	9698.2	9708.6
12.5°	9588.9	9609.7	9635.8	9646.1	9667.0	9667.0	9677.4	9682.5	9693.0	9687.7	9703.4
15°	9510.8	9536.8	9568.0	9594.1	9620.1	9635.8	9651.3	9656.5	9672.2	9656.5	9661.7
17.5°	9417.1	9448.3	9495.1	9526.4	9568.0	9583.7	9604.4	9614.9	9630.5	9620.1	9625.3
20°	9286.9	9323.4	9375.4	9422.3	9448.3	9484.7	9510.8	9526.4	9536.8	9526.4	9531.6
22.5°	9104.7	9156.8	9224.5	9260.9	9313.0	9344.2	9349.4	9385.9	9411.8	9385.9	9396.3
25°	8891.3	8943.4	8995.4	9073.5	9120.4	9156.8	9193.3	9198.5	9224.5	9219.2	9214.0
27.5°	8537.3	8605.0	8693.4	8756.0	8818.4	8875.7	8917.4	8927.7	8953.8	8943.4	8948.6
30°	8053.1	8126.1	8209.4	8308.3	8396.8	8454.0	8506.1	8542.5	8568.5	8553.0	8547.7
32.5°	7366.1	7438.9	7527.5	7626.3	7730.5	7813.7	7876.2	7923.1	7954.3	7943.8	7917.9
35°	6580.0	6600.8	6658.1	6736.2	6824.6	6913.1	6970.4	7022.4	7058.8	7069.3	7069.3
37.5°	5773.1	5705.5	5663.8	5663.8	5715.8	5752.2	5804.3	5835.5	5892.9	5913.6	5929.3
40°	4992.2	4836.0	4690.3	4581.0	4508.2	4502.9	4502.9	4518.5	4570.6	4638.2	4700.8
42.5°	4294.7	4044.8	3821.0	3617.9	3472.2	3388.9	3352.5	3357.7	3399.4	3461.8	3565.9
45°	3737.7	3425.4	3144.2	2899.6	2701.7	2571.6	2509.2	2503.9	2535.1	2608.0	2722.6
47.5°	3305.6	2972.4	2654.9	2373.8	2160.4	2019.8	1946.9	1926.2	1946.9	2014.6	2150.0
50°	2946.4	2602.9	2274.9	1983.4	1754.3	1608.6	1540.9	1514.9	1540.9	1598.2	1733.4
52.5°	2613.2	2259.2	1952.1	1671.0	1426.3	1301.4	1228.5	1212.9	1228.5	1296.2	1405.6
55°	2228.0	1926.2	1624.2	1343.0	1129.7	1004.7	947.4	931.9	947.4	1010.0	1124.5
57.5°	1848.1	1587.7	1322.3	1067.1	885.0	775.6	723.6	702.7	739.2	780.8	916.2
60°	1494.0	1285.8	1061.9	838.1	687.2	588.2	546.6	541.3	551.8	603.9	697.5
62.5°	1171.3	999.5	822.5	640.3	515.4	473.7	421.6	416.5	426.8	458.0	531.0
65°	843.3	734.1	598.7	468.5	369.6	312.3	291.6	296.8	307.1	328.0	395.6
67.5°	588.2	510.1	416.5	328.0	255.1	229.0	208.3	203.0	208.3	244.7	281.1
70°	395.6	348.8	281.1	249.9	177.0	140.5	145.7	130.2	150.9	150.9	182.1
72.5°	260.2	229.0	187.4	145.7	125.0	99.0	99.0	93.7	104.1	109.3	135.4
75°	135.4	104.1	104.1	72.9	52.1	26.0	46.9	41.7	36.4	41.7	52.1
77.5°	93.7	78.1	72.9	57.3	52.1	41.7	41.7	41.7	41.7	46.9	52.1
80°	57.3	57.3	41.7	36.4	31.2	26.0	31.2	31.2	31.2	31.2	36.4
82.5°	36.4	31.2	31.2	26.0	26.0	20.8	20.8	20.8	20.8	20.8	31.2
85°	31.2	20.8	20.8	15.7	20.8	36.4	15.7	20.8	20.8	20.8	15.7
87.5°	10.4	15.7	15.7	15.7	10.4	5.2	10.4	15.7	15.7	26.0	20.8
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°	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2	9698.2
2.5°	9713.8	9719.1	9719.1	9713.8	9713.8	9703.4	9724.2	9708.6	9713.8	9734.6	9719.1
5°	9724.2	9729.4	9729.4	9724.2	9724.2	9724.2	9729.4	9729.4	9724.2	9719.1	9729.4
7.5°	9745.1	9739.8	9739.8	9729.4	9729.4	9719.1	9729.4	9713.8	9724.2	9713.8	9729.4
10°	9719.1	9724.2	9719.1	9713.8	9713.8	9708.6	9708.6	9693.0	9698.2	9682.5	9693.0
12.5°	9703.4	9698.2	9698.2	9687.7	9677.4	9667.0	9661.7	9646.1	9646.1	9609.7	9625.3
15°	9661.7	9667.0	9651.3	9630.5	9620.1	9594.1	9583.7	9562.8	9542.0	9516.0	9521.3
17.5°	9625.3	9609.7	9588.9	9568.0	9526.4	9505.6	9484.7	9453.5	9443.0	9411.8	9401.5
20°	9516.0	9505.6	9479.6	9443.0	9417.1	9370.2	9349.4	9318.2	9292.1	9260.9	9245.2
22.5°	9375.4	9365.0	9333.8	9297.3	9255.7	9234.9	9214.0	9156.8	9130.7	9099.5	9094.3
25°	9198.5	9182.8	9151.6	9110.0	9089.1	9031.9	9011.0	8969.3	8959.0	8927.7	8922.6
27.5°	8927.7	8906.9	8870.5	8818.4	8782.0	8745.5	8724.8	8693.4	8683.1	8651.8	8646.7
30°	8521.7	8495.6	8422.8	8402.0	8339.5	8303.0	8303.0	8261.4	8266.6	8245.8	8245.8
32.5°	7881.4	7839.8	7782.5	7740.8	7699.2	7678.4	7678.4	7662.7	7673.2	7673.2	7683.6
35°	7032.9	6975.7	6944.3	6918.4	6918.4	6939.1	7001.7	7017.3	7048.5	7074.5	7095.4
37.5°	5944.8	5939.7	5976.2	6007.4	6085.4	6174.0	6283.3	6377.0	6465.4	6527.9	6590.4
40°	4768.4	4898.6	5002.6	5148.5	5268.1	5439.9	5637.7	5799.1	5950.1	6059.5	6174.0
42.5°	3722.0	3888.6	4107.3	4320.7	4534.2	4768.4	5028.7	5252.5	5450.4	5601.3	5721.0
45°	2899.6	3128.6	3394.1	3664.8	3940.7	4232.3	4502.9	4732.0	4940.2	5096.4	5216.1
47.5°	2337.3	2587.2	2889.1	3185.9	3498.2	3805.3	4107.3	4305.1	4476.8	4601.8	4711.2
50°	1931.3	2196.8	2514.4	2852.7	3165.0	3472.2	3732.5	3925.1	4065.7	4175.0	4242.6
52.5°	1613.7	1894.8	2233.3	2571.6	2883.9	3165.0	3399.4	3545.1	3659.6	3737.7	3800.1
55°	1332.6	1603.4	1920.9	2238.5	2545.6	2811.0	3003.6	3113.0	3201.4	3248.3	3284.7
57.5°	1088.0	1337.8	1629.4	1920.9	2186.4	2405.1	2556.0	2665.3	2707.0	2743.4	2738.2
60°	853.8	1088.0	1353.5	1603.4	1832.4	2009.3	2118.7	2181.2	2212.4	2228.0	2217.6
62.5°	671.5	885.0	1088.0	1306.6	1473.2	1624.2	1728.3	1728.3	1743.9	1749.1	1764.8
65°	499.7	661.1	838.1	999.5	1134.8	1233.8	1291.1	1306.6	1327.5	1322.3	1311.8
67.5°	369.6	489.4	619.4	739.2	832.9	895.3	937.0	973.5	968.3	957.9	952.6
70°	255.1	333.2	447.7	520.6	588.2	650.8	661.1	666.3	671.5	676.7	666.3
72.5°	177.0	234.2	296.8	359.2	400.8	426.8	452.9	458.0	458.0	458.0	452.9
75°	88.5	119.7	177.0	203.0	239.5	249.9	270.7	270.7	286.3	265.5	260.2
77.5°	78.1	93.7	125.0	145.7	161.4	177.0	182.1	197.8	192.6	182.1	187.4
80°	46.9	57.3	78.1	88.5	109.3	114.5	119.7	125.0	119.7	125.0	125.0
82.5°	36.4	41.7	52.1	52.1	67.6	67.6	72.9	72.9	78.1	78.1	78.1
85°	20.8	36.4	31.2	62.4	41.7	41.7	52.1	62.4	52.1	52.1	62.4
87.5°	20.8	20.8	15.7	20.8	20.8	20.8	26.0	31.2	31.2	36.4	31.2
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: P249539

CATALOG NUMBER: LD8B175D010 ER8B175835 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9698.2	9698.2	9698.2	9698.2
2.5°	9713.8	9724.2	9708.6	9703.4
5°	9729.4	9729.4	9719.1	9719.1
7.5°	9729.4	9729.4	9713.8	9703.4
10°	9687.7	9687.7	9672.2	9661.7
12.5°	9609.7	9609.7	9604.4	9588.9
15°	9510.8	9510.8	9489.9	9474.4
17.5°	9375.4	9385.9	9359.9	9359.9
20°	9229.7	9224.5	9203.7	9193.3
22.5°	9078.8	9068.3	9063.1	9031.9
25°	8917.4	8906.9	8891.3	8875.7
27.5°	8641.5	8636.3	8620.6	8599.8
30°	8219.7	8214.5	8193.8	8193.8
32.5°	7673.2	7668.0	7647.2	7652.4
35°	7105.7	7126.6	7116.2	7095.4
37.5°	6632.0	6647.7	6658.1	6647.7
40°	6236.4	6283.3	6288.5	6298.9
42.5°	5814.8	5877.2	5898.1	5908.4
45°	5309.7	5367.1	5413.9	5403.5
47.5°	4794.4	4836.0	4877.7	4846.5
50°	4299.9	4325.9	4341.6	4341.6
52.5°	3831.4	3831.4	3826.2	3831.4
55°	3295.2	3295.2	3274.4	3284.7
57.5°	2733.0	2743.4	2727.7	2701.7
60°	2212.4	2186.4	2175.9	2160.4
62.5°	1723.1	1723.1	1686.7	1733.4
65°	1291.1	1275.4	1259.7	1254.5
67.5°	937.0	931.9	916.2	911.0
70°	661.1	640.3	635.1	624.6
72.5°	442.5	442.5	432.1	432.1
75°	270.7	244.7	239.5	244.7
77.5°	187.4	182.1	182.1	177.0
80°	125.0	119.7	130.2	114.5
82.5°	78.1	83.3	78.1	83.3
85°	52.1	62.4	57.3	57.3
87.5°	31.2	31.2	31.2	31.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)