

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: P249287

Luminaire Tested: **LD8B175D010 ER8B175927 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249287
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 ER8B175927 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE 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: 14486.6 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

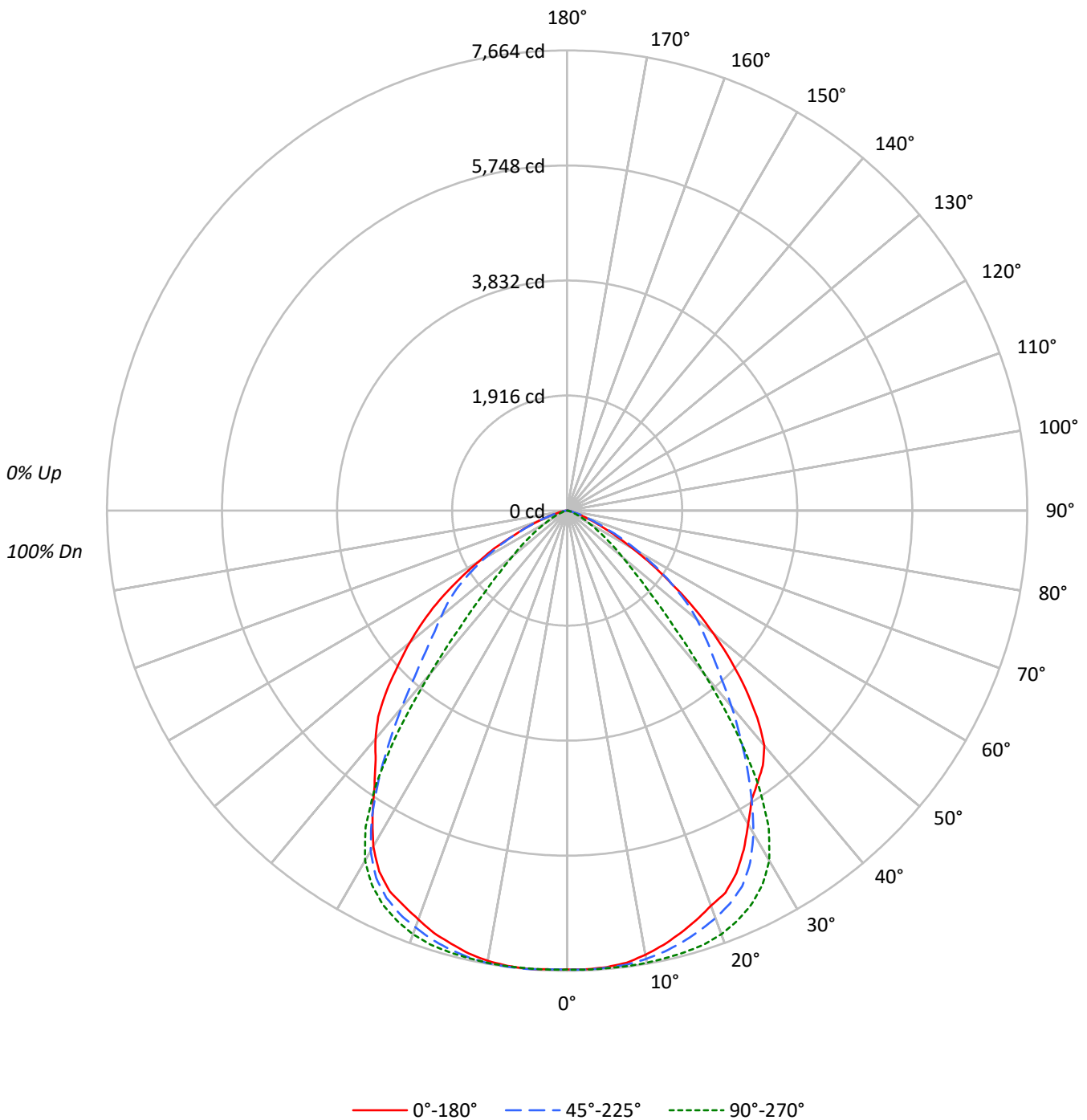
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	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°	729.5	5.0
10°-20°	2118.4	14.6
20°-30°	3215.4	22.2
30°-40°	3377.1	23.3
40°-50°	2531.9	17.5
50°-60°	1624.6	11.2
60°-70°	695.0	4.8
70°-80°	164.2	1.1
80°-90°	30.5	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°	6063.3	41.9
0°-40°	9440.4	65.2
0°-60°	13596.9	93.9
0°-90°	14486.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14486.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7644	7644	7644	7644	7644	
5°	7631	7644	7652	7664	7660	725
15°	7286	7438	7611	7562	7467	2055
25°	6667	6901	7250	7118	6995	3046
35°	5531	5223	5535	5469	5592	3471
45°	4201	3434	1974	3336	4259	3217
55°	2125	2125	734	2216	2589	1928
65°	640	755	234	972	989	683
75°	98	115	33	197	193	143
85°	33	20	16	33	45	35
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°	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5
2.5°	7647.5	7655.7	7651.7	7651.7	7647.5	7651.7	7651.7	7659.9	7659.9	7651.7	7647.5
5°	7631.1	7639.3	7639.3	7631.1	7631.1	7651.7	7639.3	7647.5	7647.5	7643.5	7643.5
7.5°	7594.2	7594.2	7610.6	7598.4	7598.4	7610.6	7606.5	7614.7	7623.0	7627.0	7627.0
10°	7512.1	7520.4	7524.4	7524.4	7528.6	7540.9	7549.1	7565.5	7573.6	7581.9	7586.0
12.5°	7409.6	7421.8	7426.0	7421.8	7434.2	7450.5	7471.1	7491.6	7504.0	7520.4	7532.7
15°	7286.4	7286.4	7294.7	7307.0	7315.3	7339.8	7360.3	7385.0	7417.8	7438.4	7458.9
17.5°	7151.2	7159.4	7171.6	7171.6	7188.1	7229.0	7241.4	7278.3	7315.3	7335.8	7376.8
20°	7003.5	7011.6	7023.9	7032.2	7052.6	7085.5	7110.1	7142.8	7183.9	7220.9	7261.9
22.5°	6888.5	6872.2	6880.3	6888.5	6909.1	6937.8	6966.6	7007.5	7048.6	7085.5	7126.5
25°	6667.0	6671.0	6683.4	6691.5	6716.2	6740.9	6773.6	6822.9	6859.8	6900.9	6946.0
27.5°	6367.5	6371.7	6392.1	6392.1	6412.6	6453.7	6474.2	6515.2	6564.5	6605.4	6658.9
30°	6027.0	6035.1	6035.1	6051.6	6063.9	6084.4	6104.9	6146.0	6170.5	6207.5	6281.3
32.5°	5715.2	5723.3	5719.2	5715.2	5702.8	5698.7	5694.6	5702.8	5711.1	5723.3	5752.0
35°	5530.6	5510.0	5493.6	5464.9	5432.1	5391.0	5354.1	5304.9	5259.7	5222.8	5181.9
37.5°	5354.1	5349.9	5325.4	5284.3	5218.7	5144.8	5058.8	4952.0	4845.4	4730.5	4619.7
40°	5108.0	5095.6	5075.1	5017.7	4943.8	4853.6	4738.7	4607.4	4435.1	4258.7	4078.1
42.5°	4689.4	4693.5	4669.0	4623.8	4554.1	4467.8	4348.9	4205.4	4020.8	3811.4	3577.6
45°	4201.2	4201.2	4193.0	4156.1	4106.8	4037.1	3946.8	3827.9	3647.4	3434.0	3183.8
47.5°	3692.5	3696.5	3684.3	3676.0	3655.6	3610.5	3544.8	3454.5	3327.3	3122.2	2871.9
50°	3175.5	3175.5	3196.0	3192.0	3192.0	3175.5	3146.8	3093.4	2982.7	2818.6	2584.8
52.5°	2658.6	2666.8	2679.2	2695.5	2716.0	2748.8	2716.0	2691.5	2621.6	2494.5	2293.4
55°	2125.2	2133.5	2153.9	2182.6	2207.4	2240.1	2248.3	2248.3	2211.3	2125.2	1973.5
57.5°	1669.8	1657.5	1674.0	1698.5	1731.4	1764.2	1788.9	1817.6	1813.4	1756.0	1632.9
60°	1255.5	1259.6	1271.8	1296.6	1321.1	1349.8	1382.6	1407.3	1419.6	1390.8	1312.9
62.5°	915.0	915.0	931.3	955.9	968.3	1009.4	1029.8	1042.1	1054.4	1050.3	1001.0
65°	640.1	648.2	656.4	668.8	681.1	705.6	718.0	742.6	750.8	754.9	718.0
67.5°	451.4	439.0	447.2	455.4	467.7	484.2	508.7	508.7	521.0	521.0	496.5
70°	287.2	287.2	291.4	303.5	311.8	315.9	324.1	332.3	344.6	340.5	340.5
72.5°	192.8	188.8	192.8	197.0	201.0	213.3	213.3	217.5	225.7	229.8	213.3
75°	98.4	102.6	110.7	106.8	118.9	110.7	114.9	127.2	123.1	114.9	114.9
77.5°	82.0	82.0	82.0	78.0	86.2	86.2	82.0	90.2	86.2	86.2	82.0
80°	57.4	61.5	57.4	53.3	57.4	53.3	53.3	53.3	53.3	53.3	49.2
82.5°	45.2	36.9	41.1	36.9	41.1	41.1	36.9	32.8	32.8	36.9	32.8
85°	32.8	24.6	28.7	28.7	24.6	24.6	24.6	24.6	24.6	20.5	20.5
87.5°	20.5	12.4	12.4	12.4	16.3	16.3	16.3	12.4	16.3	16.3	8.2
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°	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5
2.5°	7655.7	7651.7	7659.9	7655.7	7655.7	7651.7	7655.7	7651.7	7659.9	7643.5	7647.5
5°	7655.7	7647.5	7651.7	7655.7	7659.9	7651.7	7651.7	7651.7	7659.9	7651.7	7655.7
7.5°	7639.3	7635.2	7647.5	7655.7	7651.7	7647.5	7655.7	7651.7	7659.9	7655.7	7664.0
10°	7606.5	7610.6	7618.8	7631.1	7635.2	7639.3	7647.5	7647.5	7659.9	7643.5	7651.7
12.5°	7557.3	7573.6	7594.2	7602.4	7618.8	7618.8	7627.0	7631.1	7639.3	7635.2	7647.5
15°	7495.8	7516.2	7540.9	7561.5	7581.9	7594.2	7606.5	7610.6	7623.0	7610.6	7614.7
17.5°	7421.8	7446.5	7483.4	7508.0	7540.9	7553.1	7569.6	7577.8	7590.2	7581.9	7586.0
20°	7319.2	7348.0	7389.0	7426.0	7446.5	7475.2	7495.8	7508.0	7516.2	7508.0	7512.1
22.5°	7175.7	7216.8	7270.1	7298.8	7339.8	7364.5	7368.5	7397.3	7417.8	7397.3	7405.5
25°	7007.5	7048.6	7089.6	7151.2	7188.1	7216.8	7245.4	7249.6	7270.1	7265.9	7261.9
27.5°	6728.5	6782.0	6851.6	6900.9	6950.0	6995.2	7028.1	7036.2	7056.8	7048.6	7052.6
30°	6346.9	6404.4	6470.1	6548.0	6617.8	6662.8	6703.9	6732.6	6753.0	6740.9	6736.7
32.5°	5805.4	5862.8	5932.6	6010.5	6092.7	6158.1	6207.5	6244.4	6269.1	6260.7	6240.3
35°	5185.9	5202.3	5247.4	5309.0	5378.6	5448.5	5493.6	5534.6	5563.3	5571.6	5571.6
37.5°	4550.0	4496.6	4463.9	4463.9	4504.8	4533.5	4574.6	4599.1	4644.3	4660.8	4673.0
40°	3934.5	3811.4	3696.5	3610.5	3553.0	3548.9	3548.9	3561.2	3602.2	3655.6	3704.8
42.5°	3384.8	3187.8	3011.4	2851.4	2736.6	2670.9	2642.2	2646.3	2679.2	2728.4	2810.4
45°	2945.8	2699.7	2478.0	2285.2	2129.3	2026.7	1977.5	1973.5	1998.0	2055.5	2145.8
47.5°	2605.3	2342.7	2092.4	1870.9	1702.7	1591.9	1534.4	1518.1	1534.4	1587.7	1694.5
50°	2322.2	2051.4	1792.9	1563.2	1382.6	1267.8	1214.4	1194.0	1214.4	1259.6	1366.2
52.5°	2059.5	1780.5	1538.6	1317.0	1124.1	1025.7	968.3	955.9	968.3	1021.5	1107.8
55°	1756.0	1518.1	1280.0	1058.5	890.3	791.9	746.7	734.4	746.7	795.9	886.3
57.5°	1456.5	1251.3	1042.1	841.0	697.5	611.2	570.3	553.8	582.5	615.4	722.1
60°	1177.4	1013.4	836.9	660.6	541.6	463.6	430.8	426.6	434.9	476.0	549.7
62.5°	923.2	787.7	648.2	504.7	406.1	373.4	332.3	328.3	336.4	361.0	418.5
65°	664.6	578.6	471.8	369.2	291.4	246.2	229.8	233.9	242.0	258.5	311.8
67.5°	463.6	402.1	328.3	258.5	201.0	180.5	164.1	160.0	164.1	192.8	221.5
70°	311.8	274.8	221.5	197.0	139.5	110.7	114.9	102.6	118.9	118.9	143.5
72.5°	205.1	180.5	147.7	114.9	98.4	78.0	78.0	73.9	82.0	86.2	106.8
75°	106.8	82.0	82.0	57.4	41.1	20.5	36.9	32.8	28.7	32.8	41.1
77.5°	73.9	61.5	57.4	45.2	41.1	32.8	32.8	32.8	32.8	36.9	41.1
80°	45.2	45.2	32.8	28.7	24.6	20.5	24.6	24.6	24.6	24.6	28.7
82.5°	28.7	24.6	24.6	20.5	20.5	16.3	16.3	16.3	16.3	16.3	24.6
85°	24.6	16.3	16.3	12.4	16.3	28.7	12.4	16.3	16.3	16.3	12.4
87.5°	8.2	12.4	12.4	12.4	8.2	4.2	8.2	12.4	12.4	20.5	16.3
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°	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5	7643.5
2.5°	7655.7	7659.9	7659.9	7655.7	7655.7	7647.5	7664.0	7651.7	7655.7	7672.2	7659.9
5°	7664.0	7668.0	7668.0	7664.0	7664.0	7664.0	7668.0	7668.0	7664.0	7659.9	7668.0
7.5°	7680.4	7676.2	7676.2	7668.0	7668.0	7659.9	7668.0	7655.7	7664.0	7655.7	7668.0
10°	7659.9	7664.0	7659.9	7655.7	7655.7	7651.7	7651.7	7639.3	7643.5	7631.1	7639.3
12.5°	7647.5	7643.5	7643.5	7635.2	7627.0	7618.8	7614.7	7602.4	7602.4	7573.6	7586.0
15°	7614.7	7618.8	7606.5	7590.2	7581.9	7561.5	7553.1	7536.7	7520.4	7499.9	7504.0
17.5°	7586.0	7573.6	7557.3	7540.9	7508.0	7491.6	7475.2	7450.5	7442.3	7417.8	7409.6
20°	7499.9	7491.6	7471.1	7442.3	7421.8	7385.0	7368.5	7344.0	7323.4	7298.8	7286.4
22.5°	7389.0	7380.8	7356.3	7327.5	7294.7	7278.3	7261.9	7216.8	7196.2	7171.6	7167.5
25°	7249.6	7237.2	7212.7	7179.9	7163.3	7118.3	7101.8	7069.0	7060.8	7036.2	7032.2
27.5°	7036.2	7019.8	6991.1	6950.0	6921.3	6892.6	6876.2	6851.6	6843.5	6818.7	6814.7
30°	6716.2	6695.7	6638.3	6621.9	6572.6	6543.9	6543.9	6511.0	6515.2	6498.8	6498.8
32.5°	6211.6	6178.7	6133.6	6100.8	6067.9	6051.6	6051.6	6039.2	6047.4	6047.4	6055.7
35°	5542.8	5497.8	5473.0	5452.5	5452.5	5469.0	5518.2	5530.6	5555.1	5575.6	5592.2
37.5°	4685.3	4681.2	4710.0	4734.6	4796.1	4865.8	4952.0	5025.9	5095.6	5144.8	5194.0
40°	3758.1	3860.7	3942.8	4057.6	4151.9	4287.4	4443.3	4570.4	4689.4	4775.6	4865.8
42.5°	2933.4	3064.7	3237.1	3405.3	3573.4	3758.1	3963.3	4139.7	4295.6	4414.5	4508.9
45°	2285.2	2465.8	2675.0	2888.3	3105.8	3335.6	3548.9	3729.4	3893.5	4016.6	4111.0
47.5°	1842.1	2039.1	2277.0	2510.9	2757.0	2999.1	3237.1	3393.0	3528.3	3626.8	3713.1
50°	1522.1	1731.4	1981.7	2248.3	2494.5	2736.6	2941.6	3093.4	3204.2	3290.4	3343.7
52.5°	1271.8	1493.3	1760.1	2026.7	2272.8	2494.5	2679.2	2793.9	2884.3	2945.8	2995.0
55°	1050.3	1263.7	1513.9	1764.2	2006.2	2215.5	2367.2	2453.5	2523.2	2560.0	2588.8
57.5°	857.5	1054.4	1284.2	1513.9	1723.2	1895.5	2014.4	2100.6	2133.5	2162.1	2158.1
60°	672.9	857.5	1066.7	1263.7	1444.2	1583.7	1669.8	1719.0	1743.6	1756.0	1747.8
62.5°	529.2	697.5	857.5	1029.8	1161.1	1280.0	1362.1	1362.1	1374.4	1378.6	1390.8
65°	393.9	521.0	660.6	787.7	894.4	972.3	1017.6	1029.8	1046.2	1042.1	1033.9
67.5°	291.4	385.7	488.1	582.5	656.4	705.6	738.4	767.2	763.2	754.9	750.8
70°	201.0	262.6	352.9	410.3	463.6	512.9	521.0	525.2	529.2	533.4	525.2
72.5°	139.5	184.6	233.9	283.0	315.9	336.4	357.0	361.0	361.0	361.0	357.0
75°	69.8	94.4	139.5	160.0	188.8	197.0	213.3	213.3	225.7	209.2	205.1
77.5°	61.5	73.9	98.4	114.9	127.2	139.5	143.5	155.9	151.8	143.5	147.7
80°	36.9	45.2	61.5	69.8	86.2	90.2	94.4	98.4	94.4	98.4	98.4
82.5°	28.7	32.8	41.1	41.1	53.3	53.3	57.4	57.4	61.5	61.5	61.5
85°	16.3	28.7	24.6	49.2	32.8	32.8	41.1	49.2	41.1	41.1	49.2
87.5°	16.3	16.3	12.4	16.3	16.3	16.3	20.5	24.6	24.6	28.7	24.6
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: P249287

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7643.5	7643.5	7643.5	7643.5
2.5°	7655.7	7664.0	7651.7	7647.5
5°	7668.0	7668.0	7659.9	7659.9
7.5°	7668.0	7668.0	7655.7	7647.5
10°	7635.2	7635.2	7623.0	7614.7
12.5°	7573.6	7573.6	7569.6	7557.3
15°	7495.8	7495.8	7479.3	7467.1
17.5°	7389.0	7397.3	7376.8	7376.8
20°	7274.2	7270.1	7253.8	7245.4
22.5°	7155.2	7147.0	7142.8	7118.3
25°	7028.1	7019.8	7007.5	6995.2
27.5°	6810.6	6806.5	6794.1	6777.8
30°	6478.2	6474.2	6457.7	6457.7
32.5°	6047.4	6043.4	6027.0	6031.1
35°	5600.2	5616.7	5608.5	5592.2
37.5°	5226.9	5239.2	5247.4	5239.2
40°	4915.1	4952.0	4956.2	4964.4
42.5°	4582.8	4632.0	4648.5	4656.6
45°	4184.8	4229.9	4266.9	4258.7
47.5°	3778.6	3811.4	3844.2	3819.7
50°	3388.8	3409.4	3421.7	3421.7
52.5°	3019.6	3019.6	3015.6	3019.6
55°	2597.1	2597.1	2580.6	2588.8
57.5°	2153.9	2162.1	2149.8	2129.3
60°	1743.6	1723.2	1715.0	1702.7
62.5°	1358.1	1358.1	1329.3	1366.2
65°	1017.6	1005.2	992.8	988.8
67.5°	738.4	734.4	722.1	718.0
70°	521.0	504.7	500.5	492.3
72.5°	348.8	348.8	340.5	340.5
75°	213.3	192.8	188.8	192.8
77.5°	147.7	143.5	143.5	139.5
80°	98.4	94.4	102.6	90.2
82.5°	61.5	65.7	61.5	65.7
85°	41.1	49.2	45.2	45.2
87.5°	24.6	24.6	24.6	24.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)