

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: P249476

Luminaire Tested: **LD8B175D010 ER8B175935 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249476
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 ER8B175935 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14029.0 lumens
Efficiency: N/A
Efficacy: 79.2 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

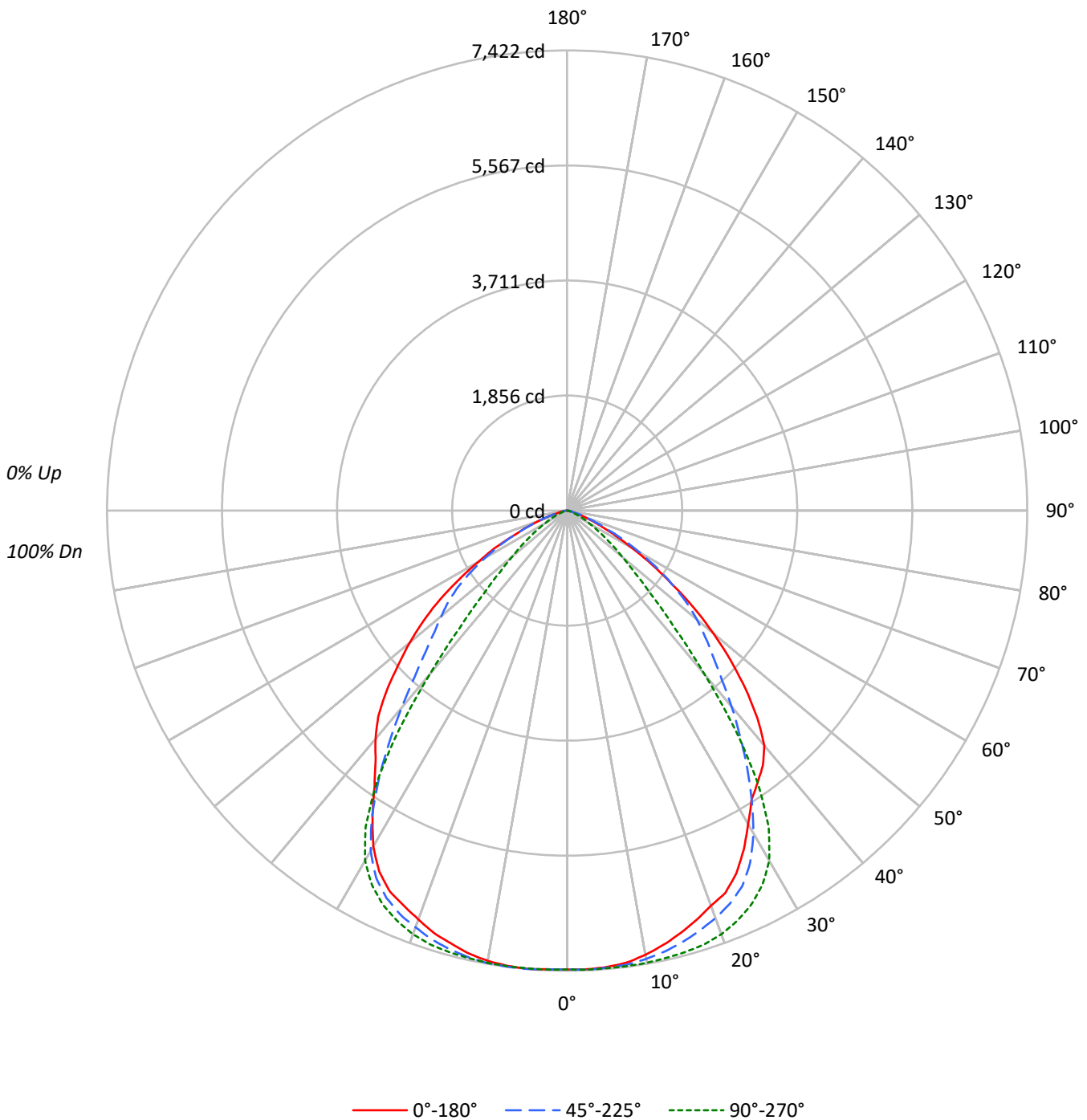
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	228250	228250	228250
5°	228751	229367	229614
10°	227789	231897	230901
15°	225266	235287	230850
20°	222560	238594	230252
25°	219673	238870	230486
30°	207822	232152	222677
35°	201619	201762	203858
40°	199120	138824	193525
45°	177424	83341	179848
50°	147531	55466	158963
55°	110646	38235	134780
60°	74982	25483	101692
65°	45231	16527	69864
70°	25073	8962	42988
75°	11366	3789	22256
80°	9873	4226	15520
85°	11251	5590	15461



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.4	5.0
10°-20°	2051.5	14.6
20°-30°	3113.8	22.2
30°-40°	3270.4	23.3
40°-50°	2452.0	17.5
50°-60°	1573.2	11.2
60°-70°	673.0	4.8
70°-80°	159.0	1.1
80°-90°	29.6	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°	5871.8	41.9
0°-40°	9142.2	65.2
0°-60°	13167.4	93.9
0°-90°	14029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14029.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7402	7402	7402	7402	7402	
5°	7390	7402	7410	7422	7418	702
15°	7056	7203	7370	7322	7231	1990
25°	6456	6683	7021	6893	6774	2950
35°	5356	5058	5360	5296	5415	3361
45°	4068	3326	1911	3230	4124	3116
55°	2058	2058	711	2146	2507	1867
65°	620	731	226	942	958	662
75°	95	111	32	191	187	139
85°	32	20	16	32	44	34
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°	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0
2.5°	7406.0	7413.9	7409.9	7409.9	7406.0	7409.9	7409.9	7417.9	7417.9	7409.9	7406.0
5°	7390.0	7398.0	7398.0	7390.0	7390.0	7409.9	7398.0	7406.0	7406.0	7402.0	7402.0
7.5°	7354.3	7354.3	7370.2	7358.3	7358.3	7370.2	7366.2	7374.2	7382.1	7386.1	7386.1
10°	7274.8	7282.8	7286.8	7286.8	7290.8	7302.6	7310.6	7326.5	7334.4	7342.4	7346.4
12.5°	7175.6	7187.4	7191.4	7187.4	7199.4	7215.2	7235.2	7255.0	7266.9	7282.8	7294.7
15°	7056.3	7056.3	7064.2	7076.2	7084.2	7108.0	7127.8	7151.6	7183.4	7203.4	7223.2
17.5°	6925.2	6933.2	6945.1	6945.1	6961.0	7000.7	7012.6	7048.4	7084.2	7104.0	7143.8
20°	6782.2	6790.1	6802.1	6810.0	6829.9	6861.6	6885.5	6917.3	6957.0	6992.8	7032.5
22.5°	6670.9	6655.1	6662.9	6670.9	6690.8	6718.6	6746.4	6786.1	6825.9	6861.6	6901.4
25°	6456.4	6460.3	6472.3	6480.2	6504.1	6527.9	6559.7	6607.3	6643.1	6682.9	6726.5
27.5°	6166.4	6170.3	6190.2	6190.2	6210.0	6249.8	6269.6	6309.4	6357.1	6396.8	6448.5
30°	5836.6	5844.5	5844.5	5860.4	5872.3	5892.2	5912.0	5951.8	5975.6	6011.4	6082.9
32.5°	5534.6	5542.5	5538.5	5534.6	5522.7	5518.7	5514.7	5522.7	5530.7	5542.5	5570.3
35°	5355.9	5335.9	5320.1	5292.3	5260.5	5220.7	5185.0	5137.3	5093.6	5057.8	5018.1
37.5°	5185.0	5181.0	5157.1	5117.4	5053.8	4982.4	4898.9	4795.6	4692.3	4581.0	4473.8
40°	4946.6	4934.6	4914.8	4859.2	4787.6	4700.2	4589.0	4461.9	4294.9	4124.1	3949.3
42.5°	4541.3	4545.3	4521.4	4477.7	4410.2	4326.7	4211.5	4072.5	3893.7	3691.0	3464.6
45°	4068.5	4068.5	4060.5	4024.8	3977.1	3909.6	3822.2	3707.0	3532.2	3325.5	3083.1
47.5°	3575.8	3579.8	3567.9	3560.0	3540.0	3496.4	3432.8	3345.4	3222.2	3023.5	2781.2
50°	3075.3	3075.3	3095.1	3091.1	3091.1	3075.3	3047.4	2995.7	2888.5	2729.6	2503.1
52.5°	2574.6	2582.6	2594.5	2610.4	2630.2	2662.0	2630.2	2606.4	2538.8	2415.6	2221.0
55°	2058.1	2066.0	2085.9	2113.7	2137.6	2169.4	2177.3	2177.3	2141.5	2058.1	1911.1
57.5°	1617.1	1605.1	1621.1	1644.9	1676.7	1708.5	1732.3	1760.1	1756.1	1700.5	1581.3
60°	1215.8	1219.8	1231.6	1255.6	1279.4	1307.2	1339.0	1362.8	1374.7	1346.9	1271.4
62.5°	886.0	886.0	901.9	925.7	937.7	977.4	997.2	1009.2	1021.1	1017.1	969.4
65°	619.9	627.7	635.7	647.7	659.5	683.3	695.3	719.1	727.1	731.1	695.3
67.5°	437.1	425.1	433.1	441.0	452.9	468.9	492.7	492.7	504.6	504.6	480.7
70°	278.1	278.1	282.1	294.0	302.0	305.9	313.9	321.8	333.7	329.8	329.8
72.5°	186.8	182.8	186.8	190.7	194.7	206.6	206.6	210.6	218.5	222.5	206.6
75°	95.4	99.4	107.2	103.3	115.2	107.2	111.2	123.2	119.2	111.2	111.2
77.5°	79.4	79.4	79.4	75.5	83.4	83.4	79.4	87.4	83.4	83.4	79.4
80°	55.6	59.6	55.6	51.6	55.6	51.6	51.6	51.6	51.6	51.6	47.6
82.5°	43.7	35.8	39.8	35.8	39.8	39.8	35.8	31.8	31.8	35.8	31.8
85°	31.8	23.8	27.8	27.8	23.8	23.8	23.8	23.8	23.8	19.8	19.8
87.5°	19.8	12.0	12.0	12.0	15.8	15.8	15.8	12.0	15.8	15.8	8.0
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°	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0
2.5°	7413.9	7409.9	7417.9	7413.9	7413.9	7409.9	7413.9	7409.9	7417.9	7402.0	7406.0
5°	7413.9	7406.0	7409.9	7413.9	7417.9	7409.9	7409.9	7409.9	7417.9	7409.9	7413.9
7.5°	7398.0	7394.0	7406.0	7413.9	7409.9	7406.0	7413.9	7409.9	7417.9	7413.9	7421.8
10°	7366.2	7370.2	7378.2	7390.0	7394.0	7398.0	7406.0	7406.0	7417.9	7402.0	7409.9
12.5°	7318.6	7334.4	7354.3	7362.2	7378.2	7378.2	7386.1	7390.0	7398.0	7394.0	7406.0
15°	7259.0	7278.8	7302.6	7322.5	7342.4	7354.3	7366.2	7370.2	7382.1	7370.2	7374.2
17.5°	7187.4	7211.2	7247.0	7270.8	7302.6	7314.6	7330.4	7338.4	7350.4	7342.4	7346.4
20°	7088.1	7116.0	7155.6	7191.4	7211.2	7239.0	7259.0	7270.8	7278.8	7270.8	7274.8
22.5°	6949.0	6988.8	7040.4	7068.2	7108.0	7131.8	7135.8	7163.6	7183.4	7163.6	7171.6
25°	6786.1	6825.9	6865.6	6925.2	6961.0	6988.8	7016.6	7020.6	7040.4	7036.4	7032.5
27.5°	6515.9	6567.7	6635.1	6682.9	6730.5	6774.2	6806.0	6813.9	6833.8	6825.9	6829.9
30°	6146.4	6202.1	6265.7	6341.1	6408.7	6452.4	6492.1	6519.9	6539.8	6527.9	6523.9
32.5°	5622.0	5677.6	5745.2	5820.7	5900.2	5963.7	6011.4	6047.2	6071.0	6063.0	6043.2
35°	5022.1	5038.0	5081.7	5141.3	5208.8	5276.3	5320.1	5359.7	5387.6	5395.5	5395.5
37.5°	4406.2	4354.6	4322.8	4322.8	4362.5	4390.3	4430.1	4453.9	4497.6	4513.5	4525.4
40°	3810.2	3691.0	3579.8	3496.4	3440.8	3436.8	3436.8	3448.7	3488.4	3540.0	3587.8
42.5°	3277.9	3087.1	2916.3	2761.3	2650.1	2586.5	2558.7	2562.7	2594.5	2642.2	2721.6
45°	2852.7	2614.3	2399.8	2213.0	2062.1	1962.7	1915.1	1911.1	1934.9	1990.5	2078.0
47.5°	2523.0	2268.6	2026.3	1811.7	1648.9	1541.6	1486.0	1470.1	1486.0	1537.6	1640.9
50°	2248.8	1986.6	1736.3	1513.8	1339.0	1227.7	1176.0	1156.2	1176.0	1219.8	1323.0
52.5°	1994.5	1724.3	1489.9	1275.4	1088.6	993.3	937.7	925.7	937.7	989.3	1072.8
55°	1700.5	1470.1	1239.6	1025.1	862.2	766.8	723.1	711.2	723.1	770.8	858.2
57.5°	1410.5	1211.8	1009.2	814.5	675.5	592.0	552.3	536.3	564.1	595.9	699.3
60°	1140.3	981.4	810.5	639.7	524.5	448.9	417.2	413.2	421.1	460.9	532.4
62.5°	894.0	762.9	627.7	488.7	393.3	361.5	321.8	317.9	325.8	349.6	405.3
65°	643.7	560.3	456.9	357.6	282.1	238.4	222.5	226.5	234.4	250.3	302.0
67.5°	448.9	389.4	317.9	250.3	194.7	174.8	158.9	155.0	158.9	186.8	214.6
70°	302.0	266.2	214.6	190.7	135.1	107.2	111.2	99.4	115.2	115.2	139.0
72.5°	198.6	174.8	143.0	111.2	95.4	75.5	75.5	71.5	79.4	83.4	103.3
75°	103.3	79.4	79.4	55.6	39.8	19.8	35.8	31.8	27.8	31.8	39.8
77.5°	71.5	59.6	55.6	43.7	39.8	31.8	31.8	31.8	31.8	35.8	39.8
80°	43.7	43.7	31.8	27.8	23.8	19.8	23.8	23.8	23.8	23.8	27.8
82.5°	27.8	23.8	23.8	19.8	19.8	15.8	15.8	15.8	15.8	15.8	23.8
85°	23.8	15.8	15.8	12.0	15.8	27.8	12.0	15.8	15.8	15.8	12.0
87.5°	8.0	12.0	12.0	12.0	8.0	4.0	8.0	12.0	12.0	19.8	15.8
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°	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0	7402.0
2.5°	7413.9	7417.9	7417.9	7413.9	7413.9	7406.0	7421.8	7409.9	7413.9	7429.8	7417.9
5°	7421.8	7425.8	7425.8	7421.8	7421.8	7421.8	7425.8	7425.8	7421.8	7417.9	7425.8
7.5°	7437.8	7433.8	7433.8	7425.8	7425.8	7417.9	7425.8	7413.9	7421.8	7413.9	7425.8
10°	7417.9	7421.8	7417.9	7413.9	7413.9	7409.9	7409.9	7398.0	7402.0	7390.0	7398.0
12.5°	7406.0	7402.0	7402.0	7394.0	7386.1	7378.2	7374.2	7362.2	7362.2	7334.4	7346.4
15°	7374.2	7378.2	7366.2	7350.4	7342.4	7322.5	7314.6	7298.6	7282.8	7263.0	7266.9
17.5°	7346.4	7334.4	7318.6	7302.6	7270.8	7255.0	7239.0	7215.2	7207.3	7183.4	7175.6
20°	7263.0	7255.0	7235.2	7207.3	7187.4	7151.6	7135.8	7112.0	7092.1	7068.2	7056.3
22.5°	7155.6	7147.7	7123.8	7096.0	7064.2	7048.4	7032.5	6988.8	6968.9	6945.1	6941.1
25°	7020.6	7008.6	6984.8	6953.0	6937.1	6893.4	6877.5	6845.7	6837.8	6813.9	6810.0
27.5°	6813.9	6798.1	6770.3	6730.5	6702.7	6674.9	6659.0	6635.1	6627.3	6603.3	6599.5
30°	6504.1	6484.2	6428.5	6412.7	6365.0	6337.2	6337.2	6305.4	6309.4	6293.5	6293.5
32.5°	6015.4	5983.6	5939.8	5908.0	5876.3	5860.4	5860.4	5848.5	5856.4	5856.4	5864.4
35°	5367.7	5324.1	5300.2	5280.3	5280.3	5296.2	5343.9	5355.9	5379.7	5399.5	5415.4
37.5°	4537.3	4533.4	4561.2	4585.0	4644.6	4712.2	4795.6	4867.1	4934.6	4982.4	5030.0
40°	3639.4	3738.8	3818.2	3929.5	4020.8	4151.9	4302.9	4426.1	4541.3	4624.8	4712.2
42.5°	2840.8	2967.9	3134.8	3297.7	3460.6	3639.4	3838.1	4008.9	4159.9	4275.1	4366.5
45°	2213.0	2387.8	2590.5	2797.1	3007.7	3230.2	3436.8	3611.6	3770.5	3889.7	3981.1
47.5°	1783.9	1974.7	2205.1	2431.6	2670.0	2904.3	3134.8	3285.8	3416.9	3512.2	3595.7
50°	1474.0	1676.7	1919.1	2177.3	2415.6	2650.1	2848.7	2995.7	3103.1	3186.5	3238.1
52.5°	1231.6	1446.2	1704.5	1962.7	2201.1	2415.6	2594.5	2705.7	2793.1	2852.7	2900.4
55°	1017.1	1223.8	1466.1	1708.5	1942.9	2145.5	2292.5	2376.0	2443.4	2479.2	2507.0
57.5°	830.4	1021.1	1243.6	1466.1	1668.7	1835.6	1950.8	2034.3	2066.0	2093.9	2089.9
60°	651.6	830.4	1033.0	1223.8	1398.6	1533.6	1617.1	1664.7	1688.6	1700.5	1692.5
62.5°	512.5	675.5	830.4	997.2	1124.4	1239.6	1319.1	1319.1	1331.0	1335.0	1346.9
65°	381.4	504.6	639.7	762.9	866.1	941.6	985.4	997.2	1013.2	1009.2	1001.2
67.5°	282.1	373.5	472.8	564.1	635.7	683.3	715.1	743.0	739.0	731.1	727.1
70°	194.7	254.3	341.7	397.3	448.9	496.7	504.6	508.5	512.5	516.5	508.5
72.5°	135.1	178.8	226.5	274.2	305.9	325.8	345.7	349.6	349.6	349.6	345.7
75°	67.6	91.4	135.1	155.0	182.8	190.7	206.6	206.6	218.5	202.6	198.6
77.5°	59.6	71.5	95.4	111.2	123.2	135.1	139.0	151.0	147.0	139.0	143.0
80°	35.8	43.7	59.6	67.6	83.4	87.4	91.4	95.4	91.4	95.4	95.4
82.5°	27.8	31.8	39.8	39.8	51.6	51.6	55.6	55.6	59.6	59.6	59.6
85°	15.8	27.8	23.8	47.6	31.8	31.8	39.8	47.6	39.8	39.8	47.6
87.5°	15.8	15.8	12.0	15.8	15.8	15.8	19.8	23.8	23.8	27.8	23.8
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: P249476

CATALOG NUMBER: LD8B175D010 ER8B175935 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7402.0	7402.0	7402.0	7402.0
2.5°	7413.9	7421.8	7409.9	7406.0
5°	7425.8	7425.8	7417.9	7417.9
7.5°	7425.8	7425.8	7413.9	7406.0
10°	7394.0	7394.0	7382.1	7374.2
12.5°	7334.4	7334.4	7330.4	7318.6
15°	7259.0	7259.0	7243.0	7231.2
17.5°	7155.6	7163.6	7143.8	7143.8
20°	7044.4	7040.4	7024.6	7016.6
22.5°	6929.2	6921.2	6917.3	6893.4
25°	6806.0	6798.1	6786.1	6774.2
27.5°	6595.5	6591.5	6579.5	6563.7
30°	6273.6	6269.6	6253.8	6253.8
32.5°	5856.4	5852.4	5836.6	5840.6
35°	5423.3	5439.3	5431.3	5415.4
37.5°	5061.8	5073.7	5081.7	5073.7
40°	4759.8	4795.6	4799.6	4807.6
42.5°	4438.0	4485.7	4501.6	4509.5
45°	4052.6	4096.3	4132.1	4124.1
47.5°	3659.2	3691.0	3722.8	3699.0
50°	3281.8	3301.7	3313.6	3313.6
52.5°	2924.3	2924.3	2920.3	2924.3
55°	2515.0	2515.0	2499.1	2507.0
57.5°	2085.9	2093.9	2081.9	2062.1
60°	1688.6	1668.7	1660.8	1648.9
62.5°	1315.1	1315.1	1287.3	1323.0
65°	985.4	973.4	961.5	957.5
67.5°	715.1	711.2	699.3	695.3
70°	504.6	488.7	484.7	476.8
72.5°	337.7	337.7	329.8	329.8
75°	206.6	186.8	182.8	186.8
77.5°	143.0	139.0	139.0	135.1
80°	95.4	91.4	99.4	87.4
82.5°	59.6	63.6	59.6	63.6
85°	39.8	47.6	43.7	43.7
87.5°	23.8	23.8	23.8	23.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)