

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: P249395

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249395
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 ER8B1759727 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12653.0 lumens
Efficiency: N/A
Efficacy: 71.4 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

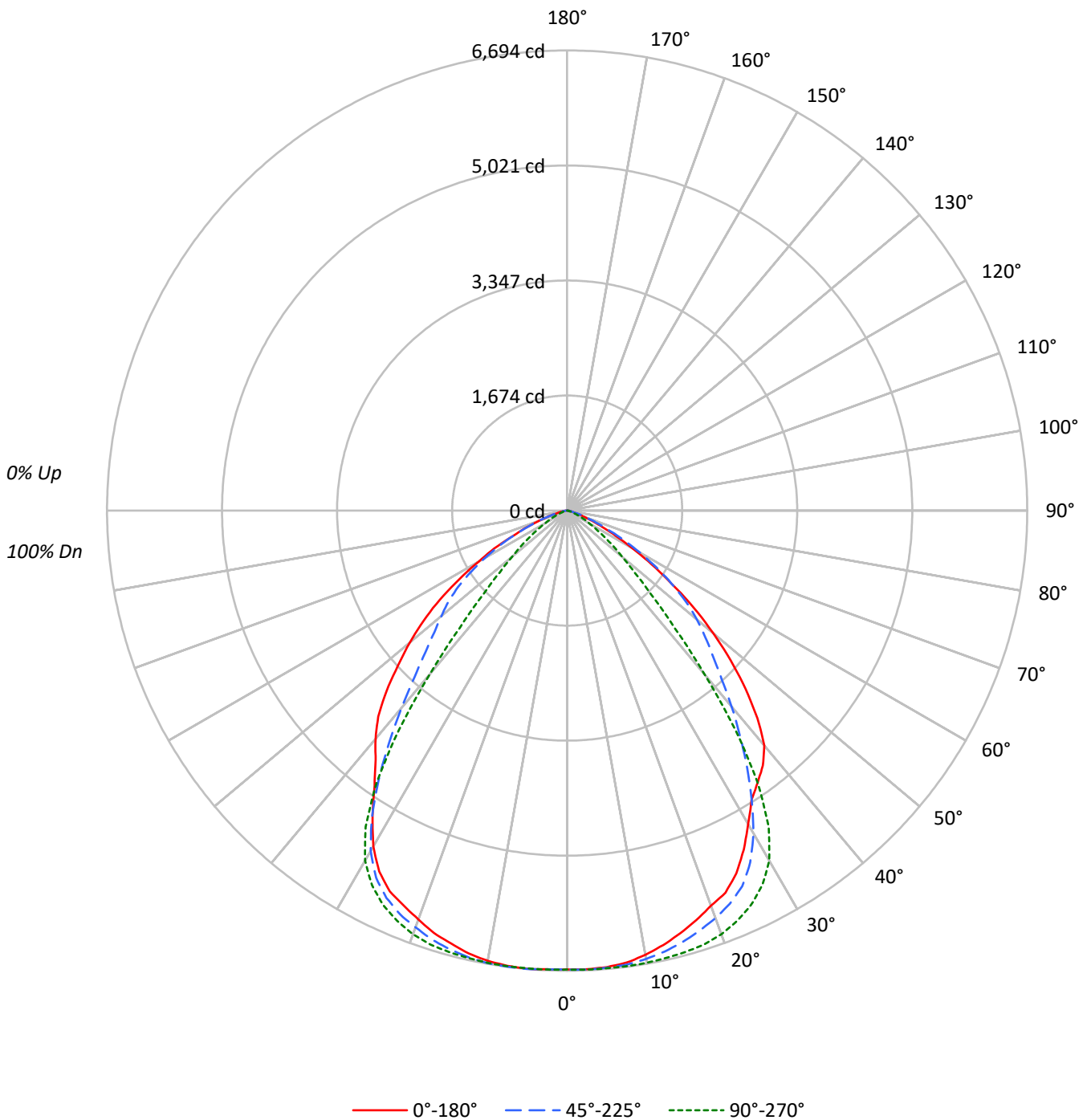
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	637.1	5.0
10°-20°	1850.3	14.6
20°-30°	2808.4	22.2
30°-40°	2949.7	23.3
40°-50°	2211.5	17.5
50°-60°	1418.9	11.2
60°-70°	607.0	4.8
70°-80°	143.4	1.1
80°-90°	26.7	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°	5295.9	41.9
0°-40°	8245.5	65.2
0°-60°	11875.9	93.9
0°-90°	12653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12653.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6676	6676	6676	6676	6676	
5°	6665	6676	6683	6694	6690	633
15°	6364	6497	6647	6604	6522	1795
25°	5823	6027	6332	6217	6110	2660
35°	4830	4562	4834	4777	4884	3032
45°	3670	2999	1724	2913	3720	2810
55°	1856	1856	642	1935	2261	1684
65°	559	659	204	849	864	597
75°	86	100	29	172	168	125
85°	29	18	14	29	40	30
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°	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0
2.5°	6679.6	6686.8	6683.2	6683.2	6679.6	6683.2	6683.2	6690.3	6690.3	6683.2	6679.6
5°	6665.2	6672.4	6672.4	6665.2	6665.2	6683.2	6672.4	6679.6	6679.6	6676.0	6676.0
7.5°	6633.0	6633.0	6647.3	6636.6	6636.6	6647.3	6643.7	6650.9	6658.1	6661.7	6661.7
10°	6561.3	6568.5	6572.1	6572.1	6575.7	6586.4	6593.6	6607.9	6615.0	6622.2	6625.8
12.5°	6471.8	6482.5	6486.1	6482.5	6493.2	6507.5	6525.5	6543.4	6554.2	6568.5	6579.3
15°	6364.2	6364.2	6371.4	6382.2	6389.3	6410.8	6428.7	6450.2	6478.9	6496.8	6514.7
17.5°	6246.0	6253.2	6263.9	6263.9	6278.2	6314.0	6324.8	6357.1	6389.3	6407.2	6443.1
20°	6117.0	6124.1	6134.9	6142.1	6160.0	6188.6	6210.1	6238.8	6274.7	6306.9	6342.7
22.5°	6016.6	6002.3	6009.4	6016.6	6034.6	6059.7	6084.7	6120.5	6156.4	6188.6	6224.5
25°	5823.1	5826.7	5837.5	5844.6	5866.1	5887.6	5916.3	5959.3	5991.5	6027.4	6066.8
27.5°	5561.5	5565.1	5583.0	5583.0	5600.9	5636.8	5654.7	5690.5	5733.6	5769.3	5816.0
30°	5264.1	5271.2	5271.2	5285.6	5296.3	5314.3	5332.2	5368.0	5389.5	5421.8	5486.3
32.5°	4991.8	4998.9	4995.3	4991.8	4981.0	4977.4	4973.8	4981.0	4988.2	4998.9	5024.0
35°	4830.5	4812.6	4798.3	4773.2	4744.5	4708.7	4676.4	4633.4	4594.0	4561.7	4525.9
37.5°	4676.4	4672.8	4651.3	4615.5	4558.1	4493.7	4418.4	4325.2	4232.0	4131.7	4035.0
40°	4461.4	4450.6	4432.7	4382.6	4318.0	4239.2	4138.9	4024.2	3873.7	3719.6	3562.0
42.5°	4095.9	4099.5	4078.0	4038.5	3977.7	3902.3	3798.4	3673.1	3511.8	3329.0	3124.8
45°	3669.5	3669.5	3662.3	3630.0	3587.0	3526.1	3447.3	3343.4	3185.7	2999.3	2780.7
47.5°	3225.1	3228.7	3217.9	3210.8	3192.8	3153.5	3096.1	3017.3	2906.2	2727.0	2508.4
50°	2773.6	2773.6	2791.5	2787.9	2787.9	2773.6	2748.5	2701.9	2605.2	2461.8	2257.6
52.5°	2322.1	2329.3	2340.0	2354.3	2372.2	2400.9	2372.2	2350.7	2289.8	2178.7	2003.2
55°	1856.2	1863.4	1881.3	1906.4	1927.9	1956.6	1963.7	1963.7	1931.4	1856.2	1723.6
57.5°	1458.5	1447.7	1462.1	1483.6	1512.2	1540.9	1562.4	1587.5	1583.9	1533.7	1426.2
60°	1096.5	1100.1	1110.8	1132.4	1153.9	1179.0	1207.6	1229.1	1239.9	1214.8	1146.7
62.5°	799.1	799.1	813.4	834.9	845.7	881.5	899.4	910.2	920.9	917.3	874.4
65°	559.1	566.2	573.3	584.1	594.8	616.3	627.1	648.6	655.8	659.4	627.1
67.5°	394.2	383.4	390.6	397.7	408.5	422.9	444.4	444.4	455.1	455.1	433.6
70°	250.9	250.9	254.5	265.1	272.3	275.9	283.1	290.2	301.0	297.4	297.4
72.5°	168.4	164.8	168.4	172.0	175.6	186.3	186.3	189.9	197.1	200.7	186.3
75°	86.0	89.6	96.7	93.2	103.9	96.7	100.3	111.1	107.5	100.3	100.3
77.5°	71.6	71.6	71.6	68.1	75.2	75.2	71.6	78.8	75.2	75.2	71.6
80°	50.2	53.7	50.2	46.6	50.2	46.6	46.6	46.6	46.6	46.6	43.0
82.5°	39.5	32.3	35.9	32.3	35.9	35.9	32.3	28.7	28.7	32.3	28.7
85°	28.7	21.5	25.1	25.1	21.5	21.5	21.5	21.5	21.5	17.9	17.9
87.5°	17.9	10.8	10.8	10.8	14.3	14.3	14.3	10.8	14.3	14.3	7.2
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°	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0
2.5°	6686.8	6683.2	6690.3	6686.8	6686.8	6683.2	6686.8	6683.2	6690.3	6676.0	6679.6
5°	6686.8	6679.6	6683.2	6686.8	6690.3	6683.2	6683.2	6683.2	6690.3	6683.2	6686.8
7.5°	6672.4	6668.8	6679.6	6686.8	6683.2	6679.6	6686.8	6683.2	6690.3	6686.8	6693.9
10°	6643.7	6647.3	6654.5	6665.2	6668.8	6672.4	6679.6	6679.6	6690.3	6676.0	6683.2
12.5°	6600.7	6615.0	6633.0	6640.1	6654.5	6654.5	6661.7	6665.2	6672.4	6668.8	6679.6
15°	6547.0	6564.9	6586.4	6604.3	6622.2	6633.0	6643.7	6647.3	6658.1	6647.3	6650.9
17.5°	6482.5	6503.9	6536.2	6557.7	6586.4	6597.1	6611.4	6618.6	6629.4	6622.2	6625.8
20°	6392.9	6418.0	6453.8	6486.1	6503.9	6529.0	6547.0	6557.7	6564.9	6557.7	6561.3
22.5°	6267.5	6303.3	6349.9	6375.0	6410.8	6432.3	6435.9	6461.0	6478.9	6461.0	6468.2
25°	6120.5	6156.4	6192.2	6246.0	6278.2	6303.3	6328.4	6332.0	6349.9	6346.3	6342.7
27.5°	5876.8	5923.5	5984.3	6027.4	6070.4	6109.8	6138.5	6145.6	6163.6	6156.4	6160.0
30°	5543.6	5593.8	5651.1	5719.2	5780.1	5819.5	5855.4	5880.4	5898.3	5887.6	5884.0
32.5°	5070.6	5120.8	5181.7	5249.7	5321.5	5378.7	5421.8	5454.0	5475.5	5468.3	5450.4
35°	4529.5	4543.8	4583.3	4637.0	4697.9	4758.8	4798.3	4834.1	4859.1	4866.3	4866.3
37.5°	3974.1	3927.5	3898.8	3898.8	3934.6	3959.7	3995.6	4017.0	4056.5	4070.8	4081.6
40°	3436.5	3329.0	3228.7	3153.5	3103.3	3099.7	3099.7	3110.4	3146.3	3192.8	3235.9
42.5°	2956.4	2784.3	2630.3	2490.5	2390.2	2332.8	2307.8	2311.4	2340.0	2383.0	2454.6
45°	2572.9	2357.9	2164.4	1996.0	1859.8	1770.2	1727.2	1723.6	1745.1	1795.3	1874.2
47.5°	2275.5	2046.1	1827.5	1634.0	1487.2	1390.4	1340.2	1325.9	1340.2	1386.8	1480.0
50°	2028.2	1791.8	1566.0	1365.3	1207.6	1107.3	1060.7	1042.8	1060.7	1100.1	1193.3
52.5°	1798.9	1555.2	1343.8	1150.3	981.9	895.8	845.7	834.9	845.7	892.2	967.6
55°	1533.7	1325.9	1118.0	924.5	777.6	691.6	652.2	641.5	652.2	695.2	774.0
57.5°	1272.2	1092.9	910.2	734.6	609.2	533.9	498.1	483.7	508.8	537.5	630.7
60°	1028.4	885.1	731.0	576.9	473.0	404.9	376.2	372.6	379.8	415.7	480.1
62.5°	806.3	688.0	566.2	440.8	354.8	326.1	290.2	286.7	293.8	315.3	365.5
65°	580.5	505.3	412.1	322.5	254.5	215.0	200.7	204.3	211.4	225.8	272.3
67.5°	404.9	351.2	286.7	225.8	175.6	157.7	143.4	139.8	143.4	168.4	193.5
70°	272.3	240.1	193.5	172.0	121.9	96.7	100.3	89.6	103.9	103.9	125.4
72.5°	179.1	157.7	129.0	100.3	86.0	68.1	68.1	64.5	71.6	75.2	93.2
75°	93.2	71.6	71.6	50.2	35.9	17.9	32.3	28.7	25.1	28.7	35.9
77.5°	64.5	53.7	50.2	39.5	35.9	28.7	28.7	28.7	28.7	32.3	35.9
80°	39.5	39.5	28.7	25.1	21.5	17.9	21.5	21.5	21.5	21.5	25.1
82.5°	25.1	21.5	21.5	17.9	17.9	14.3	14.3	14.3	14.3	14.3	21.5
85°	21.5	14.3	14.3	10.8	14.3	25.1	10.8	14.3	14.3	14.3	10.8
87.5°	7.2	10.8	10.8	10.8	7.2	3.6	7.2	10.8	10.8	17.9	14.3
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°	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0	6676.0
2.5°	6686.8	6690.3	6690.3	6686.8	6686.8	6679.6	6693.9	6683.2	6686.8	6701.0	6690.3
5°	6693.9	6697.5	6697.5	6693.9	6693.9	6693.9	6697.5	6697.5	6693.9	6690.3	6697.5
7.5°	6708.2	6704.6	6704.6	6697.5	6697.5	6690.3	6697.5	6686.8	6693.9	6686.8	6697.5
10°	6690.3	6693.9	6690.3	6686.8	6686.8	6683.2	6683.2	6672.4	6676.0	6665.2	6672.4
12.5°	6679.6	6676.0	6676.0	6668.8	6661.7	6654.5	6650.9	6640.1	6640.1	6615.0	6625.8
15°	6650.9	6654.5	6643.7	6629.4	6622.2	6604.3	6597.1	6582.8	6568.5	6550.6	6554.2
17.5°	6625.8	6615.0	6600.7	6586.4	6557.7	6543.4	6529.0	6507.5	6500.3	6478.9	6471.8
20°	6550.6	6543.4	6525.5	6500.3	6482.5	6450.2	6435.9	6414.4	6396.4	6375.0	6364.2
22.5°	6453.8	6446.6	6425.1	6400.0	6371.4	6357.1	6342.7	6303.3	6285.4	6263.9	6260.3
25°	6332.0	6321.2	6299.7	6271.1	6256.7	6217.3	6202.9	6174.3	6167.2	6145.6	6142.1
27.5°	6145.6	6131.3	6106.2	6070.4	6045.3	6020.2	6005.9	5984.3	5977.2	5955.7	5952.2
30°	5866.1	5848.2	5798.0	5783.7	5740.7	5715.6	5715.6	5686.9	5690.5	5676.2	5676.2
32.5°	5425.4	5396.7	5357.2	5328.6	5299.9	5285.6	5285.6	5274.8	5282.0	5282.0	5289.2
35°	4841.2	4801.9	4780.3	4762.4	4762.4	4776.7	4819.8	4830.5	4852.0	4869.9	4884.3
37.5°	4092.3	4088.8	4113.8	4135.3	4189.1	4250.0	4325.2	4389.8	4450.6	4493.7	4536.6
40°	3282.4	3372.0	3443.7	3544.1	3626.4	3744.7	3880.9	3992.0	4095.9	4171.2	4250.0
42.5°	2562.1	2676.8	2827.4	2974.2	3121.2	3282.4	3461.7	3615.7	3751.9	3855.8	3938.2
45°	1996.0	2153.6	2336.4	2522.8	2712.7	2913.4	3099.7	3257.4	3400.7	3508.2	3590.6
47.5°	1609.0	1781.0	1988.8	2193.1	2408.1	2619.5	2827.4	2963.5	3081.7	3167.8	3243.1
50°	1329.4	1512.2	1730.8	1963.7	2178.7	2390.2	2569.3	2701.9	2798.7	2873.9	2920.5
52.5°	1110.8	1304.3	1537.3	1770.2	1985.2	2178.7	2340.0	2440.3	2519.2	2572.9	2615.9
55°	917.3	1103.7	1322.3	1540.9	1752.3	1935.0	2067.6	2142.9	2203.8	2236.1	2261.1
57.5°	749.0	920.9	1121.6	1322.3	1505.1	1655.6	1759.5	1834.7	1863.4	1888.5	1884.9
60°	587.7	749.0	931.7	1103.7	1261.4	1383.2	1458.5	1501.5	1522.9	1533.7	1526.5
62.5°	462.3	609.2	749.0	899.4	1014.1	1118.0	1189.7	1189.7	1200.4	1204.0	1214.8
65°	344.0	455.1	576.9	688.0	781.2	849.3	888.7	899.4	913.8	910.2	903.0
67.5°	254.5	336.9	426.4	508.8	573.3	616.3	645.0	670.1	666.6	659.4	655.8
70°	175.6	229.4	308.2	358.4	404.9	448.0	455.1	458.7	462.3	465.9	458.7
72.5°	121.9	161.2	204.3	247.3	275.9	293.8	311.8	315.3	315.3	315.3	311.8
75°	60.9	82.4	121.9	139.8	164.8	172.0	186.3	186.3	197.1	182.7	179.1
77.5°	53.7	64.5	86.0	100.3	111.1	121.9	125.4	136.2	132.6	125.4	129.0
80°	32.3	39.5	53.7	60.9	75.2	78.8	82.4	86.0	82.4	86.0	86.0
82.5°	25.1	28.7	35.9	35.9	46.6	46.6	50.2	50.2	53.7	53.7	53.7
85°	14.3	25.1	21.5	43.0	28.7	28.7	35.9	43.0	35.9	35.9	43.0
87.5°	14.3	14.3	10.8	14.3	14.3	14.3	17.9	21.5	21.5	25.1	21.5
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: P249395

CATALOG NUMBER: LD8B175D010 ER8B1759727 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6676.0	6676.0	6676.0	6676.0
2.5°	6686.8	6693.9	6683.2	6679.6
5°	6697.5	6697.5	6690.3	6690.3
7.5°	6697.5	6697.5	6686.8	6679.6
10°	6668.8	6668.8	6658.1	6650.9
12.5°	6615.0	6615.0	6611.4	6600.7
15°	6547.0	6547.0	6532.6	6521.9
17.5°	6453.8	6461.0	6443.1	6443.1
20°	6353.5	6349.9	6335.6	6328.4
22.5°	6249.6	6242.4	6238.8	6217.3
25°	6138.5	6131.3	6120.5	6109.8
27.5°	5948.6	5945.0	5934.2	5919.9
30°	5658.3	5654.7	5640.4	5640.4
32.5°	5282.0	5278.4	5264.1	5267.7
35°	4891.4	4905.8	4898.6	4884.3
37.5°	4565.3	4576.1	4583.3	4576.1
40°	4293.0	4325.2	4328.8	4336.0
42.5°	4002.7	4045.7	4060.1	4067.2
45°	3655.1	3694.5	3726.8	3719.6
47.5°	3300.3	3329.0	3357.7	3336.2
50°	2959.9	2977.8	2988.6	2988.6
52.5°	2637.5	2637.5	2633.9	2637.5
55°	2268.3	2268.3	2254.0	2261.1
57.5°	1881.3	1888.5	1877.7	1859.8
60°	1522.9	1505.1	1497.9	1487.2
62.5°	1186.2	1186.2	1161.1	1193.3
65°	888.7	878.0	867.2	863.6
67.5°	645.0	641.5	630.7	627.1
70°	455.1	440.8	437.2	430.0
72.5°	304.6	304.6	297.4	297.4
75°	186.3	168.4	164.8	168.4
77.5°	129.0	125.4	125.4	121.9
80°	86.0	82.4	89.6	78.8
82.5°	53.7	57.3	53.7	57.3
85°	35.9	43.0	39.5	39.5
87.5°	21.5	21.5	21.5	21.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)