

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: P249512

Luminaire Tested: **LD8B175D010 ER8B175930 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249512
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 ER8B175930 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13585.4 lumens
Efficiency: N/A
Efficacy: 76.7 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

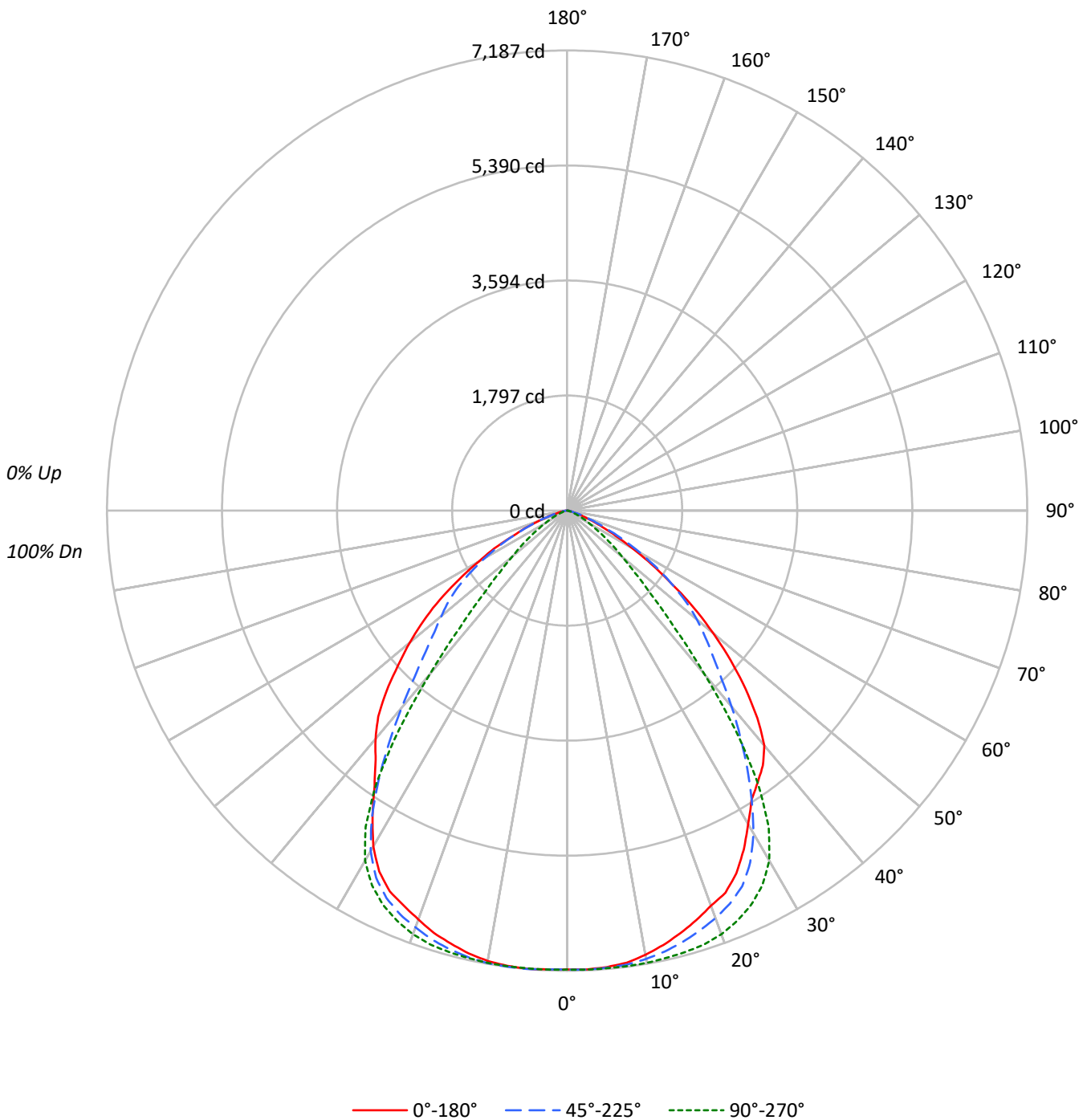
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	684.1	5.0
10°-20°	1986.7	14.6
20°-30°	3015.4	22.2
30°-40°	3167.0	23.3
40°-50°	2374.4	17.5
50°-60°	1523.5	11.2
60°-70°	651.7	4.8
70°-80°	154.0	1.1
80°-90°	28.6	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°	5686.1	41.9
0°-40°	8853.1	65.2
0°-60°	12751.1	93.9
0°-90°	13585.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13585.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7168	7168	7168	7168	7168	
5°	7156	7168	7176	7187	7183	680
15°	6833	6976	7137	7091	7003	1927
25°	6252	6472	6799	6675	6560	2856
35°	5186	4898	5190	5129	5244	3255
45°	3940	3220	1851	3128	3994	3017
55°	1993	1993	689	2078	2428	1808
65°	600	708	219	912	927	641
75°	92	108	31	185	181	134
85°	31	19	15	31	42	32
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°	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9
2.5°	7171.8	7179.6	7175.6	7175.6	7171.8	7175.6	7175.6	7183.4	7183.4	7175.6	7171.8
5°	7156.4	7164.1	7164.1	7156.4	7156.4	7175.6	7164.1	7171.8	7171.8	7167.9	7167.9
7.5°	7121.8	7121.8	7137.2	7125.6	7125.6	7137.2	7133.3	7141.0	7148.7	7152.5	7152.5
10°	7044.8	7052.5	7056.4	7056.4	7060.2	7071.7	7079.5	7094.9	7102.5	7110.2	7114.1
12.5°	6948.6	6960.2	6964.0	6960.2	6971.7	6987.1	7006.4	7025.5	7037.2	7052.5	7064.1
15°	6833.2	6833.2	6840.9	6852.4	6860.2	6883.3	6902.4	6925.5	6956.3	6975.5	6994.8
17.5°	6706.3	6714.0	6725.4	6725.4	6740.9	6779.4	6790.9	6825.5	6860.2	6879.4	6917.9
20°	6567.7	6575.3	6587.0	6594.7	6613.9	6644.7	6667.7	6698.5	6737.0	6771.6	6810.1
22.5°	6460.0	6444.6	6452.3	6460.0	6479.3	6506.2	6533.1	6571.5	6610.1	6644.7	6683.2
25°	6252.2	6256.1	6267.6	6275.2	6298.5	6321.4	6352.3	6398.4	6433.1	6471.5	6513.8
27.5°	5971.3	5975.3	5994.4	5994.4	6013.6	6052.2	6071.3	6109.9	6156.1	6194.5	6244.5
30°	5652.1	5659.7	5659.7	5675.1	5686.6	5705.9	5725.1	5763.6	5786.7	5821.4	5890.6
32.5°	5359.6	5367.2	5363.4	5359.6	5348.1	5344.1	5340.3	5348.1	5355.8	5367.2	5394.1
35°	5186.5	5167.2	5151.9	5125.0	5094.2	5055.6	5021.0	4974.9	4932.5	4897.9	4859.4
37.5°	5021.0	5017.1	4994.1	4955.6	4893.9	4824.8	4744.1	4644.0	4543.9	4436.1	4332.3
40°	4790.1	4778.6	4759.4	4705.5	4636.2	4551.6	4443.9	4320.8	4159.1	3993.7	3824.4
42.5°	4397.7	4401.5	4378.5	4336.1	4270.8	4190.0	4078.3	3943.7	3770.6	3574.3	3355.0
45°	3939.9	3939.9	3932.1	3897.5	3851.4	3786.0	3701.3	3589.8	3420.5	3220.3	2985.7
47.5°	3462.8	3466.6	3455.0	3447.4	3428.1	3385.9	3324.2	3239.7	3120.3	2927.9	2693.2
50°	2978.0	2978.0	2997.2	2993.4	2993.4	2978.0	2951.0	2901.0	2797.1	2643.2	2423.9
52.5°	2493.2	2501.0	2512.5	2527.9	2547.0	2577.9	2547.0	2523.9	2458.6	2339.3	2150.8
55°	1993.0	2000.8	2019.9	2046.8	2070.0	2100.8	2108.4	2108.4	2073.7	1993.0	1850.7
57.5°	1565.9	1554.4	1569.8	1592.9	1623.7	1654.5	1677.6	1704.5	1700.6	1646.7	1531.3
60°	1177.4	1181.2	1192.7	1215.8	1238.9	1265.8	1296.7	1319.6	1331.3	1304.4	1231.2
62.5°	858.0	858.0	873.4	896.5	908.0	946.5	965.7	977.3	988.8	984.9	938.8
65°	600.3	607.9	615.7	627.2	638.6	661.7	673.3	696.4	704.1	707.9	673.3
67.5°	423.3	411.6	419.4	427.0	438.6	454.0	477.1	477.1	488.6	488.6	465.6
70°	269.4	269.4	273.2	284.7	292.4	296.3	304.0	311.6	323.2	319.4	319.4
72.5°	180.8	177.0	180.8	184.7	188.6	200.1	200.1	203.9	211.6	215.5	200.1
75°	92.4	96.2	103.8	100.1	111.5	103.8	107.7	119.3	115.5	107.7	107.7
77.5°	76.9	76.9	76.9	73.2	80.8	80.8	76.9	84.6	80.8	80.8	76.9
80°	53.8	57.7	53.8	50.0	53.8	50.0	50.0	50.0	50.0	50.0	46.2
82.5°	42.4	34.6	38.5	34.6	38.5	38.5	34.6	30.8	30.8	34.6	30.8
85°	30.8	23.1	26.9	26.9	23.1	23.1	23.1	23.1	23.1	19.2	19.2
87.5°	19.2	11.5	11.5	11.5	15.4	15.4	15.4	11.5	15.4	15.4	7.7
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°	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9
2.5°	7179.6	7175.6	7183.4	7179.6	7179.6	7175.6	7179.6	7175.6	7183.4	7167.9	7171.8
5°	7179.6	7171.8	7175.6	7179.6	7183.4	7175.6	7175.6	7175.6	7183.4	7175.6	7179.6
7.5°	7164.1	7160.2	7171.8	7179.6	7175.6	7171.8	7179.6	7175.6	7183.4	7179.6	7187.2
10°	7133.3	7137.2	7144.8	7156.4	7160.2	7164.1	7171.8	7171.8	7183.4	7167.9	7175.6
12.5°	7087.2	7102.5	7121.8	7129.4	7144.8	7144.8	7152.5	7156.4	7164.1	7160.2	7171.8
15°	7029.5	7048.6	7071.7	7091.0	7110.2	7121.8	7133.3	7137.2	7148.7	7137.2	7141.0
17.5°	6960.2	6983.3	7017.9	7040.9	7071.7	7083.3	7098.6	7106.4	7117.9	7110.2	7114.1
20°	6863.9	6890.9	6929.3	6964.0	6983.3	7010.2	7029.5	7040.9	7048.6	7040.9	7044.8
22.5°	6729.4	6767.8	6817.8	6844.7	6883.3	6906.3	6910.2	6937.1	6956.3	6937.1	6944.8
25°	6571.5	6610.1	6648.5	6706.3	6740.9	6767.8	6794.7	6798.6	6817.8	6814.0	6810.1
27.5°	6309.9	6360.0	6425.3	6471.5	6517.7	6560.1	6590.8	6598.4	6617.7	6610.1	6613.9
30°	5952.1	6006.0	6067.6	6140.6	6206.1	6248.3	6286.8	6313.8	6333.0	6321.4	6317.6
32.5°	5444.2	5498.2	5563.5	5636.6	5713.6	5775.1	5821.4	5856.0	5879.0	5871.3	5852.1
35°	4863.3	4878.7	4921.0	4978.7	5044.1	5109.5	5151.9	5190.2	5217.2	5224.9	5224.9
37.5°	4267.0	4217.0	4186.2	4186.2	4224.6	4251.5	4290.0	4313.0	4355.4	4370.8	4382.3
40°	3689.8	3574.3	3466.6	3385.9	3331.9	3328.1	3328.1	3339.6	3378.1	3428.1	3474.3
42.5°	3174.2	2989.5	2824.1	2674.0	2566.3	2504.8	2477.9	2481.7	2512.5	2558.6	2635.5
45°	2762.5	2531.7	2323.9	2143.0	1996.8	1900.7	1854.5	1850.7	1873.8	1927.6	2012.3
47.5°	2443.2	2196.9	1962.2	1754.5	1596.8	1492.8	1438.9	1423.7	1438.9	1488.9	1589.0
50°	2177.7	1923.7	1681.4	1465.9	1296.7	1188.9	1138.8	1119.7	1138.8	1181.2	1281.2
52.5°	1931.5	1669.8	1442.8	1235.0	1054.2	961.8	908.0	896.5	908.0	958.0	1038.8
55°	1646.7	1423.7	1200.4	992.6	834.9	742.6	700.3	688.7	700.3	746.5	831.1
57.5°	1365.9	1173.5	977.3	788.7	654.1	573.3	534.8	519.4	546.3	577.1	677.2
60°	1104.2	950.4	784.8	619.5	507.9	434.7	404.0	400.1	407.8	446.4	515.5
62.5°	865.7	738.7	607.9	473.3	380.9	350.1	311.6	307.8	315.4	338.5	392.5
65°	623.3	542.6	442.5	346.3	273.2	230.8	215.5	219.4	227.0	242.4	292.4
67.5°	434.7	377.0	307.8	242.4	188.6	169.3	153.9	150.1	153.9	180.8	207.7
70°	292.4	257.7	207.7	184.7	130.8	103.8	107.7	96.2	111.5	111.5	134.6
72.5°	192.4	169.3	138.4	107.7	92.4	73.2	73.2	69.3	76.9	80.8	100.1
75°	100.1	76.9	76.9	53.8	38.5	19.2	34.6	30.8	26.9	30.8	38.5
77.5°	69.3	57.7	53.8	42.4	38.5	30.8	30.8	30.8	30.8	34.6	38.5
80°	42.4	42.4	30.8	26.9	23.1	19.2	23.1	23.1	23.1	23.1	26.9
82.5°	26.9	23.1	23.1	19.2	19.2	15.4	15.4	15.4	15.4	15.4	23.1
85°	23.1	15.4	15.4	11.5	15.4	26.9	11.5	15.4	15.4	15.4	11.5
87.5°	7.7	11.5	11.5	11.5	7.7	3.8	7.7	11.5	11.5	19.2	15.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9	7167.9
2.5°	7179.6	7183.4	7183.4	7179.6	7179.6	7171.8	7187.2	7175.6	7179.6	7194.8	7183.4
5°	7187.2	7191.0	7191.0	7187.2	7187.2	7187.2	7191.0	7191.0	7187.2	7183.4	7191.0
7.5°	7202.5	7198.7	7198.7	7191.0	7191.0	7183.4	7191.0	7179.6	7187.2	7179.6	7191.0
10°	7183.4	7187.2	7183.4	7179.6	7179.6	7175.6	7175.6	7164.1	7167.9	7156.4	7164.1
12.5°	7171.8	7167.9	7167.9	7160.2	7152.5	7144.8	7141.0	7129.4	7129.4	7102.5	7114.1
15°	7141.0	7144.8	7133.3	7117.9	7110.2	7091.0	7083.3	7067.9	7052.5	7033.3	7037.2
17.5°	7114.1	7102.5	7087.2	7071.7	7040.9	7025.5	7010.2	6987.1	6979.3	6956.3	6948.6
20°	7033.3	7025.5	7006.4	6979.3	6960.2	6925.5	6910.2	6887.1	6867.8	6844.7	6833.2
22.5°	6929.3	6921.6	6898.6	6871.6	6840.9	6825.5	6810.1	6767.8	6748.5	6725.4	6721.6
25°	6798.6	6787.0	6764.0	6733.2	6717.7	6675.4	6660.0	6629.3	6621.6	6598.4	6594.7
27.5°	6598.4	6583.1	6556.2	6517.7	6490.7	6463.8	6448.4	6425.3	6417.7	6394.5	6390.8
30°	6298.5	6279.2	6225.2	6209.9	6163.7	6136.8	6136.8	6106.0	6109.9	6094.5	6094.5
32.5°	5825.2	5794.3	5752.1	5721.2	5690.4	5675.1	5675.1	5663.5	5671.3	5671.3	5679.0
35°	5198.0	5155.7	5132.6	5113.3	5113.3	5128.7	5174.9	5186.5	5209.6	5228.8	5244.3
37.5°	4393.9	4390.1	4417.0	4440.1	4497.8	4563.1	4644.0	4713.2	4778.6	4824.8	4871.0
40°	3524.3	3620.5	3697.5	3805.2	3893.7	4020.7	4166.9	4286.1	4397.7	4478.5	4563.1
42.5°	2750.9	2874.1	3035.7	3193.4	3351.2	3524.3	3716.8	3882.1	4028.3	4140.0	4228.4
45°	2143.0	2312.3	2508.6	2708.7	2912.6	3128.0	3328.1	3497.4	3651.3	3766.8	3855.2
47.5°	1727.6	1912.2	2135.4	2354.7	2585.6	2812.5	3035.7	3182.0	3308.9	3401.2	3482.1
50°	1427.4	1623.7	1858.4	2108.4	2339.3	2566.3	2758.7	2901.0	3005.0	3085.7	3135.7
52.5°	1192.7	1400.5	1650.6	1900.7	2131.5	2339.3	2512.5	2620.2	2704.9	2762.5	2808.7
55°	984.9	1185.1	1419.7	1654.5	1881.5	2077.7	2220.0	2300.9	2366.2	2400.8	2427.7
57.5°	804.2	988.8	1204.3	1419.7	1615.9	1777.6	1889.1	1969.9	2000.8	2027.7	2023.7
60°	631.0	804.2	1000.4	1185.1	1354.3	1485.1	1565.9	1612.1	1635.2	1646.7	1639.0
62.5°	496.3	654.1	804.2	965.7	1088.8	1200.4	1277.4	1277.4	1288.9	1292.7	1304.4
65°	369.4	488.6	619.5	738.7	838.7	911.8	954.2	965.7	981.1	977.3	969.6
67.5°	273.2	361.7	457.8	546.3	615.7	661.7	692.6	719.6	715.6	707.9	704.1
70°	188.6	246.3	330.9	384.7	434.7	481.0	488.6	492.5	496.3	500.2	492.5
72.5°	130.8	173.1	219.4	265.5	296.3	315.4	334.7	338.5	338.5	338.5	334.7
75°	65.5	88.4	130.8	150.1	177.0	184.7	200.1	200.1	211.6	196.2	192.4
77.5°	57.7	69.3	92.4	107.7	119.3	130.8	134.6	146.2	142.4	134.6	138.4
80°	34.6	42.4	57.7	65.5	80.8	84.6	88.4	92.4	88.4	92.4	92.4
82.5°	26.9	30.8	38.5	38.5	50.0	50.0	53.8	53.8	57.7	57.7	57.7
85°	15.4	26.9	23.1	46.2	30.8	30.8	38.5	46.2	38.5	38.5	46.2
87.5°	15.4	15.4	11.5	15.4	15.4	15.4	19.2	23.1	23.1	26.9	23.1
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: P249512

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7167.9	7167.9	7167.9	7167.9
2.5°	7179.6	7187.2	7175.6	7171.8
5°	7191.0	7191.0	7183.4	7183.4
7.5°	7191.0	7191.0	7179.6	7171.8
10°	7160.2	7160.2	7148.7	7141.0
12.5°	7102.5	7102.5	7098.6	7087.2
15°	7029.5	7029.5	7014.0	7002.6
17.5°	6929.3	6937.1	6917.9	6917.9
20°	6821.6	6817.8	6802.5	6794.7
22.5°	6710.1	6702.3	6698.5	6675.4
25°	6590.8	6583.1	6571.5	6560.1
27.5°	6386.9	6383.1	6371.4	6356.2
30°	6075.3	6071.3	6056.0	6056.0
32.5°	5671.3	5667.4	5652.1	5655.9
35°	5251.9	5267.2	5259.5	5244.3
37.5°	4901.7	4913.3	4921.0	4913.3
40°	4609.3	4644.0	4647.8	4655.5
42.5°	4297.7	4343.9	4359.2	4366.9
45°	3924.4	3966.8	4001.4	3993.7
47.5°	3543.5	3574.3	3605.1	3582.0
50°	3178.0	3197.3	3208.9	3208.9
52.5°	2831.8	2831.8	2827.9	2831.8
55°	2435.5	2435.5	2420.1	2427.7
57.5°	2019.9	2027.7	2016.1	1996.8
60°	1635.2	1615.9	1608.2	1596.8
62.5°	1273.6	1273.6	1246.7	1281.2
65°	954.2	942.6	931.1	927.2
67.5°	692.6	688.7	677.2	673.3
70°	488.6	473.3	469.4	461.6
72.5°	327.0	327.0	319.4	319.4
75°	200.1	180.8	177.0	180.8
77.5°	138.4	134.6	134.6	130.8
80°	92.4	88.4	96.2	84.6
82.5°	57.7	61.5	57.7	61.5
85°	38.5	46.2	42.4	42.4
87.5°	23.1	23.1	23.1	23.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)