

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: P249620

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249620
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 ER8B1759730 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13541.0 lumens
Efficiency: N/A
Efficacy: 76.4 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

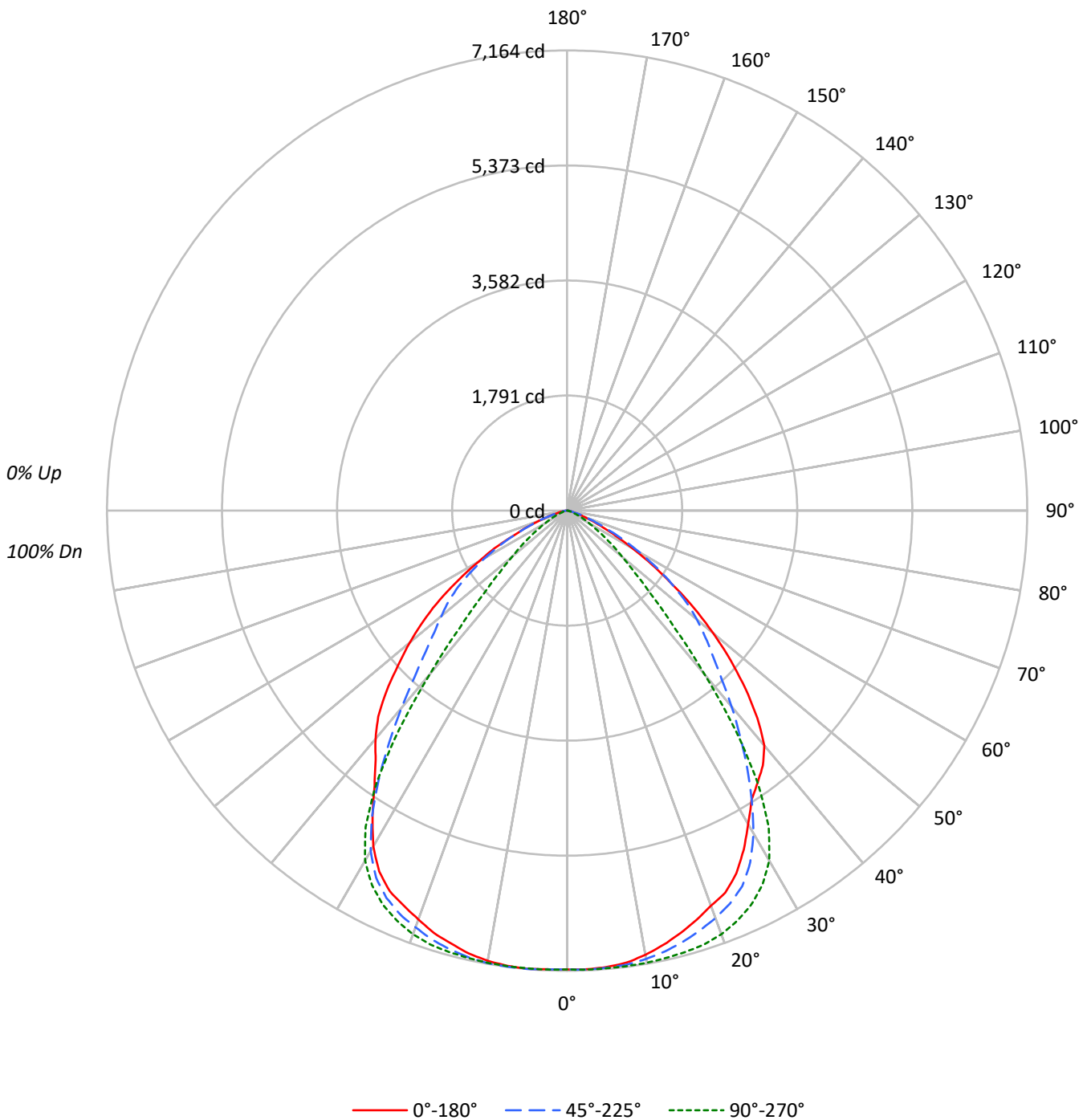
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	681.8	5.0
10°-20°	1980.2	14.6
20°-30°	3005.5	22.2
30°-40°	3156.7	23.3
40°-50°	2366.7	17.5
50°-60°	1518.5	11.2
60°-70°	649.6	4.8
70°-80°	153.5	1.1
80°-90°	28.5	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°	5667.5	41.9
0°-40°	8824.2	65.2
0°-60°	12709.4	93.9
0°-90°	13541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13541.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7144	7144	7144	7144	7144	
5°	7133	7144	7152	7164	7160	678
15°	6811	6953	7114	7068	6980	1921
25°	6232	6450	6776	6654	6539	2847
35°	5170	4882	5173	5112	5227	3245
45°	3927	3210	1845	3118	3981	3007
55°	1986	1986	686	2071	2420	1802
65°	598	706	219	909	924	639
75°	92	107	31	184	180	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°	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5
2.5°	7148.3	7156.0	7152.2	7152.2	7148.3	7152.2	7152.2	7159.9	7159.9	7152.2	7148.3
5°	7133.0	7140.7	7140.7	7133.0	7133.0	7152.2	7140.7	7148.3	7148.3	7144.5	7144.5
7.5°	7098.5	7098.5	7113.8	7102.4	7102.4	7113.8	7110.0	7117.7	7125.4	7129.2	7129.2
10°	7021.8	7029.5	7033.3	7033.3	7037.1	7048.6	7056.3	7071.7	7079.3	7087.0	7090.8
12.5°	6926.0	6937.4	6941.3	6937.4	6948.9	6964.2	6983.5	7002.6	7014.2	7029.5	7041.0
15°	6810.8	6810.8	6818.5	6830.1	6837.7	6860.7	6879.9	6902.9	6933.6	6952.8	6971.9
17.5°	6684.3	6692.0	6703.5	6703.5	6718.9	6757.1	6768.7	6803.2	6837.7	6856.9	6895.3
20°	6546.3	6553.9	6565.4	6573.1	6592.3	6623.0	6646.0	6676.6	6715.0	6749.5	6787.8
22.5°	6438.9	6423.6	6431.2	6438.9	6458.1	6484.9	6511.8	6550.1	6588.4	6623.0	6661.3
25°	6231.8	6235.6	6247.2	6254.8	6277.8	6300.8	6331.5	6377.5	6412.0	6450.4	6492.5
27.5°	5951.9	5955.7	5974.8	5974.8	5994.0	6032.4	6051.5	6089.9	6136.0	6174.2	6224.2
30°	5633.6	5641.2	5641.2	5656.6	5668.0	5687.2	5706.4	5744.8	5767.8	5802.3	5871.3
32.5°	5342.1	5349.7	5345.9	5342.1	5330.6	5326.7	5322.9	5330.6	5338.3	5349.7	5376.6
35°	5169.6	5150.3	5135.0	5108.2	5077.5	5039.1	5004.6	4958.6	4916.4	4881.9	4843.6
37.5°	5004.6	5000.7	4977.8	4939.4	4878.0	4809.0	4728.5	4628.8	4529.0	4421.7	4318.2
40°	4774.5	4763.0	4743.8	4690.2	4621.1	4536.7	4429.4	4306.6	4145.5	3980.7	3811.9
42.5°	4383.3	4387.2	4364.2	4321.9	4256.8	4176.2	4065.0	3930.8	3758.3	3562.6	3344.1
45°	3927.0	3927.0	3919.3	3884.8	3838.8	3773.6	3689.2	3578.0	3409.3	3209.8	2975.9
47.5°	3451.4	3455.3	3443.7	3436.1	3416.9	3374.8	3313.4	3229.0	3110.2	2918.4	2684.4
50°	2968.3	2968.3	2987.4	2983.6	2983.6	2968.3	2941.4	2891.5	2788.0	2634.6	2416.1
52.5°	2485.0	2492.7	2504.3	2519.6	2538.7	2569.4	2538.7	2515.7	2450.5	2331.6	2143.8
55°	1986.5	1994.2	2013.3	2040.2	2063.2	2093.9	2101.5	2101.5	2067.0	1986.5	1844.6
57.5°	1560.8	1549.3	1564.7	1587.7	1618.4	1649.1	1672.0	1698.9	1695.0	1641.4	1526.3
60°	1173.5	1177.3	1188.8	1211.9	1234.9	1261.7	1292.4	1315.4	1326.9	1300.1	1227.2
62.5°	855.2	855.2	870.5	893.5	905.0	943.4	962.6	974.1	985.5	981.7	935.7
65°	598.3	605.9	613.6	625.1	636.6	659.6	671.1	694.1	701.8	705.6	671.1
67.5°	421.9	410.3	418.0	425.6	437.2	452.6	475.6	475.6	487.0	487.0	464.0
70°	268.5	268.5	272.3	283.8	291.5	295.3	303.0	310.6	322.1	318.3	318.3
72.5°	180.3	176.4	180.3	184.1	187.9	199.4	199.4	203.2	210.9	214.8	199.4
75°	92.1	95.9	103.5	99.7	111.2	103.5	107.3	118.9	115.0	107.3	107.3
77.5°	76.7	76.7	76.7	72.9	80.5	80.5	76.7	84.4	80.5	80.5	76.7
80°	53.7	57.5	53.7	49.8	53.7	49.8	49.8	49.8	49.8	49.8	46.0
82.5°	42.2	34.5	38.4	34.5	38.4	38.4	34.5	30.7	30.7	34.5	30.7
85°	30.7	23.0	26.8	26.8	23.0	23.0	23.0	23.0	23.0	19.1	19.1
87.5°	19.1	11.5	11.5	11.5	15.3	15.3	15.3	11.5	15.3	15.3	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°	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5
2.5°	7156.0	7152.2	7159.9	7156.0	7156.0	7152.2	7156.0	7152.2	7159.9	7144.5	7148.3
5°	7156.0	7148.3	7152.2	7156.0	7159.9	7152.2	7152.2	7152.2	7159.9	7152.2	7156.0
7.5°	7140.7	7136.8	7148.3	7156.0	7152.2	7148.3	7156.0	7152.2	7159.9	7156.0	7163.6
10°	7110.0	7113.8	7121.5	7133.0	7136.8	7140.7	7148.3	7148.3	7159.9	7144.5	7152.2
12.5°	7064.0	7079.3	7098.5	7106.1	7121.5	7121.5	7129.2	7133.0	7140.7	7136.8	7148.3
15°	7006.5	7025.6	7048.6	7067.8	7087.0	7098.5	7110.0	7113.8	7125.4	7113.8	7117.7
17.5°	6937.4	6960.4	6994.9	7017.9	7048.6	7060.1	7075.4	7083.1	7094.7	7087.0	7090.8
20°	6841.5	6868.4	6906.7	6941.3	6960.4	6987.2	7006.5	7017.9	7025.6	7017.9	7021.8
22.5°	6707.3	6745.7	6795.5	6822.4	6860.7	6883.7	6887.6	6914.4	6933.6	6914.4	6922.1
25°	6550.1	6588.4	6626.8	6684.3	6718.9	6745.7	6772.5	6776.4	6795.5	6791.7	6787.8
27.5°	6289.3	6339.2	6404.3	6450.4	6496.4	6538.6	6569.3	6576.9	6596.1	6588.4	6592.3
30°	5932.6	5986.4	6047.8	6120.6	6185.8	6227.9	6266.3	6293.1	6312.3	6300.8	6297.0
32.5°	5426.5	5480.1	5545.4	5618.2	5694.9	5756.2	5802.3	5836.8	5859.8	5852.1	5833.0
35°	4847.4	4862.7	4904.9	4962.5	5027.6	5092.8	5135.0	5173.3	5200.1	5207.8	5207.8
37.5°	4253.0	4203.1	4172.5	4172.5	4210.7	4237.6	4276.0	4299.0	4341.2	4356.5	4368.0
40°	3677.7	3562.6	3455.3	3374.8	3321.1	3317.3	3317.3	3328.7	3367.1	3416.9	3463.0
42.5°	3163.8	2979.7	2814.9	2665.3	2557.9	2496.6	2469.7	2473.6	2504.3	2550.2	2626.9
45°	2753.5	2523.4	2316.3	2136.1	1990.3	1894.4	1848.5	1844.6	1867.6	1921.3	2005.7
47.5°	2435.2	2189.7	1955.8	1748.7	1591.5	1487.9	1434.3	1419.0	1434.3	1484.1	1583.8
50°	2170.6	1917.5	1675.9	1461.1	1292.4	1185.0	1135.1	1116.0	1135.1	1177.3	1277.0
52.5°	1925.1	1664.4	1438.1	1231.0	1050.8	958.7	905.0	893.5	905.0	954.9	1035.5
55°	1641.4	1419.0	1196.5	989.4	832.2	740.2	697.9	686.5	697.9	744.0	828.4
57.5°	1361.4	1169.7	974.1	786.1	652.0	571.4	533.1	517.7	544.5	575.2	675.0
60°	1100.6	947.3	782.3	617.4	506.2	433.3	402.6	398.8	406.5	444.9	513.8
62.5°	862.9	736.3	605.9	471.7	379.7	349.0	310.6	306.8	314.4	337.4	391.2
65°	621.3	540.8	441.0	345.1	272.3	230.1	214.8	218.6	226.2	241.6	291.5
67.5°	433.3	375.8	306.8	241.6	187.9	168.7	153.4	149.6	153.4	180.3	207.1
70°	291.5	256.9	207.1	184.1	130.4	103.5	107.3	95.9	111.2	111.2	134.2
72.5°	191.7	168.7	138.0	107.3	92.1	72.9	72.9	69.1	76.7	80.5	99.7
75°	99.7	76.7	76.7	53.7	38.4	19.1	34.5	30.7	26.8	30.7	38.4
77.5°	69.1	57.5	53.7	42.2	38.4	30.7	30.7	30.7	30.7	34.5	38.4
80°	42.2	42.2	30.7	26.8	23.0	19.1	23.0	23.0	23.0	23.0	26.8
82.5°	26.8	23.0	23.0	19.1	19.1	15.3	15.3	15.3	15.3	15.3	23.0
85°	23.0	15.3	15.3	11.5	15.3	26.8	11.5	15.3	15.3	15.3	11.5
87.5°	7.7	11.5	11.5	11.5	7.7	3.8	7.7	11.5	11.5	19.1	15.3
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°	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5	7144.5
2.5°	7156.0	7159.9	7159.9	7156.0	7156.0	7148.3	7163.6	7152.2	7156.0	7171.3	7159.9
5°	7163.6	7167.5	7167.5	7163.6	7163.6	7163.6	7167.5	7167.5	7163.6	7159.9	7167.5
7.5°	7179.0	7175.2	7175.2	7167.5	7167.5	7159.9	7167.5	7156.0	7163.6	7156.0	7167.5
10°	7159.9	7163.6	7159.9	7156.0	7156.0	7152.2	7152.2	7140.7	7144.5	7133.0	7140.7
12.5°	7148.3	7144.5	7144.5	7136.8	7129.2	7121.5	7117.7	7106.1	7106.1	7079.3	7090.8
15°	7117.7	7121.5	7110.0	7094.7	7087.0	7067.8	7060.1	7044.8	7029.5	7010.3	7014.2
17.5°	7090.8	7079.3	7064.0	7048.6	7017.9	7002.6	6987.2	6964.2	6956.5	6933.6	6926.0
20°	7010.3	7002.6	6983.5	6956.5	6937.4	6902.9	6887.6	6864.6	6845.4	6822.4	6810.8
22.5°	6906.7	6899.0	6876.0	6849.2	6818.5	6803.2	6787.8	6745.7	6726.5	6703.5	6699.6
25°	6776.4	6764.8	6741.9	6711.2	6695.8	6653.6	6638.3	6607.6	6600.0	6576.9	6573.1
27.5°	6576.9	6561.6	6534.8	6496.4	6469.5	6442.7	6427.4	6404.3	6396.7	6373.6	6369.9
30°	6277.8	6258.6	6204.9	6189.6	6143.6	6116.7	6116.7	6086.0	6089.9	6074.6	6074.6
32.5°	5806.1	5775.4	5733.2	5702.5	5671.9	5656.6	5656.6	5645.0	5652.7	5652.7	5660.4
35°	5181.0	5138.9	5115.8	5096.6	5096.6	5111.9	5158.0	5169.6	5192.5	5211.7	5227.1
37.5°	4379.5	4375.7	4402.5	4425.5	4483.1	4548.3	4628.8	4697.8	4763.0	4809.0	4855.0
40°	3512.8	3608.7	3685.4	3792.8	3880.9	4007.5	4153.2	4272.1	4383.3	4463.9	4548.3
42.5°	2742.0	2864.7	3025.8	3183.0	3340.2	3512.8	3704.6	3869.5	4015.2	4126.4	4214.6
45°	2136.1	2304.8	2500.4	2699.8	2903.1	3117.9	3317.3	3486.0	3639.4	3754.4	3842.6
47.5°	1721.9	1906.0	2128.4	2347.0	2577.1	2803.3	3025.8	3171.5	3298.0	3390.1	3470.7
50°	1422.7	1618.4	1852.3	2101.5	2331.6	2557.9	2749.6	2891.5	2995.1	3075.6	3125.5
52.5°	1188.8	1395.9	1645.2	1894.4	2124.5	2331.6	2504.3	2611.6	2696.0	2753.5	2799.5
55°	981.7	1181.2	1415.1	1649.1	1875.3	2070.8	2212.7	2293.3	2358.4	2393.0	2419.8
57.5°	801.5	985.5	1200.3	1415.1	1610.7	1771.8	1883.0	1963.5	1994.2	2021.0	2017.2
60°	629.0	801.5	997.1	1181.2	1349.9	1480.2	1560.8	1606.8	1629.8	1641.4	1633.7
62.5°	494.7	652.0	801.5	962.6	1085.3	1196.5	1273.2	1273.2	1284.7	1288.5	1300.1
65°	368.1	487.0	617.4	736.3	836.0	908.9	951.1	962.6	977.9	974.1	966.4
67.5°	272.3	360.5	456.3	544.5	613.6	659.6	690.3	717.2	713.3	705.6	701.8
70°	187.9	245.5	329.8	383.5	433.3	479.4	487.0	490.9	494.7	498.5	490.9
72.5°	130.4	172.6	218.6	264.6	295.3	314.4	333.7	337.4	337.4	337.4	333.7
75°	65.2	88.2	130.4	149.6	176.4	184.1	199.4	199.4	210.9	195.6	191.7
77.5°	57.5	69.1	92.1	107.3	118.9	130.4	134.2	145.7	141.9	134.2	138.0
80°	34.5	42.2	57.5	65.2	80.5	84.4	88.2	92.1	88.2	92.1	92.1
82.5°	26.8	30.7	38.4	38.4	49.8	49.8	53.7	53.7	57.5	57.5	57.5
85°	15.3	26.8	23.0	46.0	30.7	30.7	38.4	46.0	38.4	38.4	46.0
87.5°	15.3	15.3	11.5	15.3	15.3	15.3	19.1	23.0	23.0	26.8	23.0
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: P249620

CATALOG NUMBER: LD8B175D010 ER8B1759730 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7144.5	7144.5	7144.5	7144.5
2.5°	7156.0	7163.6	7152.2	7148.3
5°	7167.5	7167.5	7159.9	7159.9
7.5°	7167.5	7167.5	7156.0	7148.3
10°	7136.8	7136.8	7125.4	7117.7
12.5°	7079.3	7079.3	7075.4	7064.0
15°	7006.5	7006.5	6991.1	6979.6
17.5°	6906.7	6914.4	6895.3	6895.3
20°	6799.4	6795.5	6780.2	6772.5
22.5°	6688.2	6680.5	6676.6	6653.6
25°	6569.3	6561.6	6550.1	6538.6
27.5°	6366.0	6362.2	6350.7	6335.4
30°	6055.4	6051.5	6036.2	6036.2
32.5°	5652.7	5648.9	5633.6	5637.4
35°	5234.7	5250.1	5242.4	5227.1
37.5°	4885.7	4897.2	4904.9	4897.2
40°	4594.3	4628.8	4632.6	4640.3
42.5°	4283.7	4329.6	4345.0	4352.6
45°	3911.6	3953.8	3988.4	3980.7
47.5°	3531.9	3562.6	3593.3	3570.3
50°	3167.7	3186.8	3198.4	3198.4
52.5°	2822.6	2822.6	2818.7	2822.6
55°	2427.5	2427.5	2412.2	2419.8
57.5°	2013.3	2021.0	2009.5	1990.3
60°	1629.8	1610.7	1603.0	1591.5
62.5°	1269.4	1269.4	1242.6	1277.0
65°	951.1	939.6	928.0	924.2
67.5°	690.3	686.5	675.0	671.1
70°	487.0	471.7	467.9	460.2
72.5°	326.0	326.0	318.3	318.3
75°	199.4	180.3	176.4	180.3
77.5°	138.0	134.2	134.2	130.4
80°	92.1	88.2	95.9	84.4
82.5°	57.5	61.4	57.5	61.4
85°	38.4	46.0	42.2	42.2
87.5°	23.0	23.0	23.0	23.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)