

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: P249404

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249404
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 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13387.0 lumens
Efficiency: N/A
Efficacy: 75.5 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

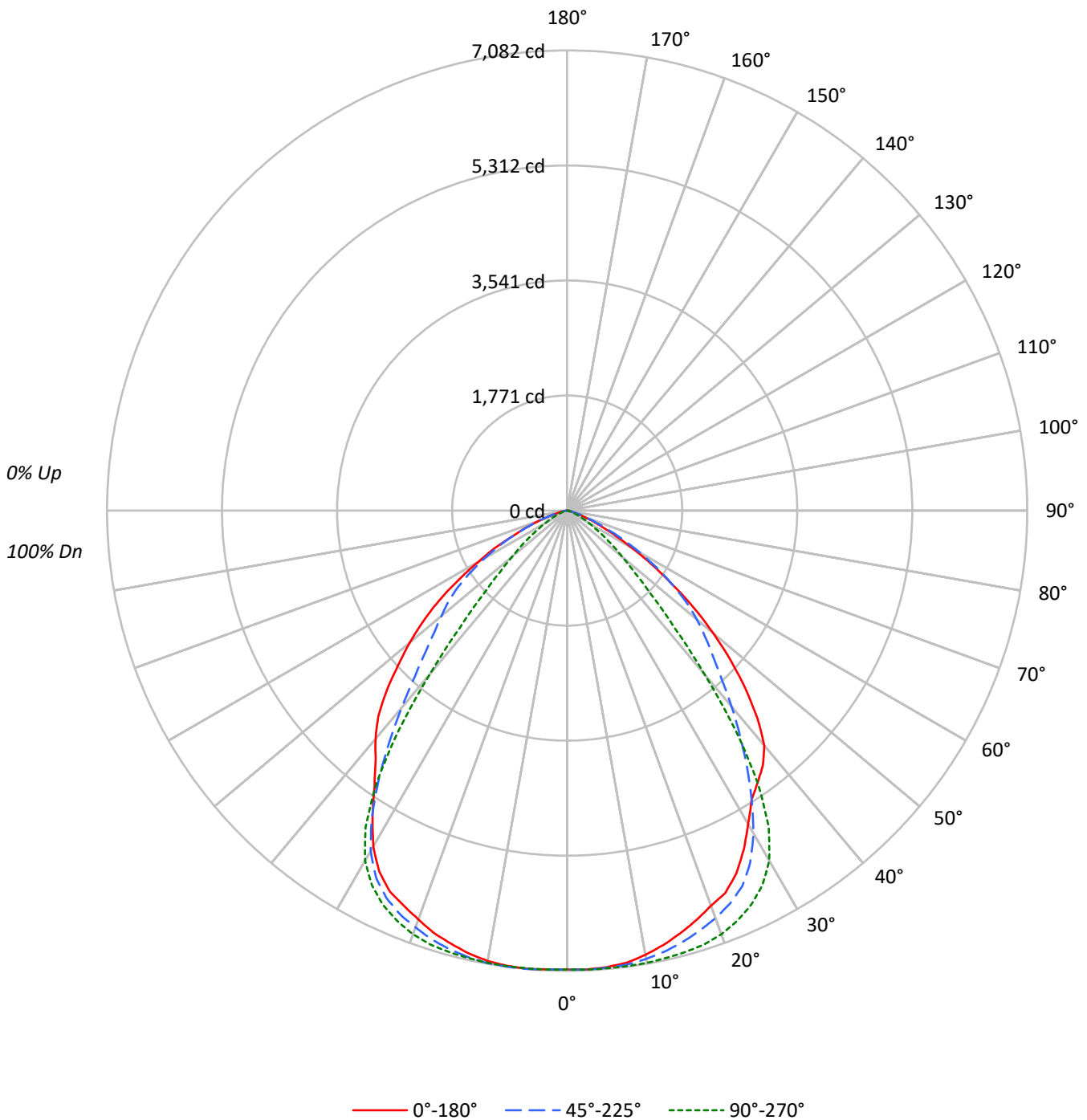
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	674.1	5.0
10°-20°	1957.6	14.6
20°-30°	2971.3	22.2
30°-40°	3120.8	23.3
40°-50°	2339.8	17.5
50°-60°	1501.2	11.2
60°-70°	642.2	4.8
70°-80°	151.7	1.1
80°-90°	28.2	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°	5603.1	41.9
0°-40°	8723.8	65.2
0°-60°	12564.8	93.9
0°-90°	13387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13387.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7063	7063	7063	7063	7063	
5°	7052	7063	7071	7082	7078	670
15°	6733	6874	7033	6988	6900	1899
25°	6161	6377	6699	6578	6464	2815
35°	5111	4826	5114	5054	5168	3208
45°	3882	3173	1824	3082	3935	2973
55°	1964	1964	679	2047	2392	1781
65°	592	698	216	898	914	631
75°	91	106	30	182	178	133
85°	30	19	15	30	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°	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2
2.5°	7067.0	7074.7	7070.9	7070.9	7067.0	7070.9	7070.9	7078.5	7078.5	7070.9	7067.0
5°	7051.8	7059.4	7059.4	7051.8	7051.8	7070.9	7059.4	7067.0	7067.0	7063.2	7063.2
7.5°	7017.8	7017.8	7032.9	7021.6	7021.6	7032.9	7029.1	7036.7	7044.3	7048.1	7048.1
10°	6941.9	6949.5	6953.3	6953.3	6957.1	6968.4	6976.0	6991.3	6998.8	7006.4	7010.2
12.5°	6847.2	6858.5	6862.3	6858.5	6869.9	6885.0	6904.1	6923.0	6934.4	6949.5	6960.9
15°	6733.4	6733.4	6741.0	6752.4	6760.0	6782.7	6801.6	6824.4	6854.7	6873.7	6892.6
17.5°	6608.3	6615.9	6627.2	6627.2	6642.4	6680.3	6691.7	6725.8	6760.0	6778.9	6816.9
20°	6471.8	6479.4	6490.8	6498.4	6517.3	6547.6	6570.4	6600.7	6638.6	6672.8	6710.6
22.5°	6365.6	6350.5	6358.0	6365.6	6384.6	6411.2	6437.7	6475.6	6513.5	6547.6	6585.6
25°	6160.9	6164.7	6176.1	6183.6	6206.4	6229.2	6259.5	6305.0	6339.1	6377.0	6418.7
27.5°	5884.2	5888.0	5906.9	5906.9	5925.8	5963.8	5982.7	6020.6	6066.2	6104.0	6153.4
30°	5569.5	5577.0	5577.0	5592.2	5603.5	5622.6	5641.5	5679.4	5702.2	5736.3	5804.6
32.5°	5281.4	5288.9	5285.1	5281.4	5270.0	5266.1	5262.3	5270.0	5277.6	5288.9	5315.4
35°	5110.8	5091.7	5076.6	5050.1	5019.8	4981.8	4947.7	4902.2	4860.5	4826.3	4788.5
37.5°	4947.7	4943.9	4921.1	4883.2	4822.5	4754.3	4674.8	4576.1	4477.5	4371.4	4269.1
40°	4720.2	4708.8	4689.9	4636.8	4568.5	4485.1	4379.0	4257.7	4098.4	3935.4	3768.6
42.5°	4333.5	4337.3	4314.5	4272.8	4208.4	4128.7	4018.8	3886.1	3715.5	3522.1	3306.1
45°	3882.3	3882.3	3874.7	3840.6	3795.1	3730.7	3647.3	3537.3	3370.5	3173.3	2942.0
47.5°	3412.2	3416.0	3404.6	3397.1	3378.0	3336.4	3275.7	3192.3	3074.8	2885.2	2653.9
50°	2934.5	2934.5	2953.4	2949.6	2949.6	2934.5	2908.0	2858.6	2756.3	2604.6	2388.6
52.5°	2456.8	2464.4	2475.8	2490.9	2509.8	2540.2	2509.8	2487.1	2422.6	2305.1	2119.4
55°	1963.9	1971.5	1990.4	2017.0	2039.8	2070.1	2077.6	2077.6	2043.5	1963.9	1823.6
57.5°	1543.1	1531.7	1546.9	1569.6	1600.0	1630.3	1653.0	1679.6	1675.8	1622.7	1509.0
60°	1160.2	1164.0	1175.3	1198.1	1220.8	1247.4	1277.7	1300.4	1311.8	1285.3	1213.2
62.5°	845.5	845.5	860.6	883.3	894.7	932.7	951.6	963.0	974.3	970.5	925.1
65°	591.5	599.0	606.6	618.0	629.3	652.1	663.5	686.2	693.8	697.6	663.5
67.5°	417.1	405.7	413.3	420.8	432.2	447.4	470.1	470.1	481.5	481.5	458.7
70°	265.4	265.4	269.2	280.5	288.1	291.9	299.5	307.1	318.5	314.7	314.7
72.5°	178.2	174.4	178.2	182.0	185.8	197.1	197.1	200.9	208.5	212.3	197.1
75°	91.0	94.8	102.3	98.6	109.9	102.3	106.1	117.5	113.7	106.1	106.1
77.5°	75.8	75.8	75.8	72.1	79.6	79.6	75.8	83.4	79.6	79.6	75.8
80°	53.1	56.9	53.1	49.3	53.1	49.3	49.3	49.3	49.3	49.3	45.5
82.5°	41.7	34.1	37.9	34.1	37.9	37.9	34.1	30.3	30.3	34.1	30.3
85°	30.3	22.7	26.5	26.5	22.7	22.7	22.7	22.7	22.7	18.9	18.9
87.5°	18.9	11.4	11.4	11.4	15.1	15.1	15.1	11.4	15.1	15.1	7.6
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°	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2
2.5°	7074.7	7070.9	7078.5	7074.7	7074.7	7070.9	7074.7	7070.9	7078.5	7063.2	7067.0
5°	7074.7	7067.0	7070.9	7074.7	7078.5	7070.9	7070.9	7070.9	7078.5	7070.9	7074.7
7.5°	7059.4	7055.6	7067.0	7074.7	7070.9	7067.0	7074.7	7070.9	7078.5	7074.7	7082.2
10°	7029.1	7032.9	7040.5	7051.8	7055.6	7059.4	7067.0	7067.0	7078.5	7063.2	7070.9
12.5°	6983.6	6998.8	7017.8	7025.3	7040.5	7040.5	7048.1	7051.8	7059.4	7055.6	7067.0
15°	6926.8	6945.7	6968.4	6987.5	7006.4	7017.8	7029.1	7032.9	7044.3	7032.9	7036.7
17.5°	6858.5	6881.2	6915.4	6938.1	6968.4	6979.8	6995.0	7002.6	7014.0	7006.4	7010.2
20°	6763.7	6790.3	6828.2	6862.3	6881.2	6907.8	6926.8	6938.1	6945.7	6938.1	6941.9
22.5°	6631.0	6669.0	6718.2	6744.8	6782.7	6805.4	6809.2	6835.8	6854.7	6835.8	6843.4
25°	6475.6	6513.5	6551.4	6608.3	6642.4	6669.0	6695.5	6699.3	6718.2	6714.4	6710.6
27.5°	6217.8	6267.1	6331.5	6377.0	6422.5	6464.2	6494.6	6502.1	6521.1	6513.5	6517.3
30°	5865.2	5918.3	5979.0	6051.0	6115.4	6157.1	6195.0	6221.6	6240.5	6229.2	6225.4
32.5°	5364.8	5417.8	5482.3	5554.3	5630.2	5690.7	5736.3	5770.4	5793.2	5785.6	5766.6
35°	4792.3	4807.4	4849.2	4906.0	4970.4	5034.9	5076.6	5114.5	5141.0	5148.6	5148.6
37.5°	4204.6	4155.3	4125.0	4125.0	4162.9	4189.4	4227.3	4250.1	4291.8	4306.9	4318.3
40°	3635.8	3522.1	3416.0	3336.4	3283.3	3279.5	3279.5	3290.8	3328.8	3378.0	3423.6
42.5°	3127.9	2945.8	2782.8	2635.0	2528.8	2468.2	2441.6	2445.4	2475.8	2521.2	2597.0
45°	2722.2	2494.7	2290.0	2111.8	1967.7	1872.9	1827.4	1823.6	1846.4	1899.4	1982.9
47.5°	2407.5	2164.8	1933.6	1728.8	1573.4	1471.0	1418.0	1402.8	1418.0	1467.2	1565.8
50°	2145.9	1895.7	1656.8	1444.5	1277.7	1171.6	1122.2	1103.3	1122.2	1164.0	1262.5
52.5°	1903.2	1645.4	1421.8	1217.0	1038.8	947.8	894.7	883.3	894.7	944.0	1023.7
55°	1622.7	1402.8	1182.9	978.1	822.8	731.8	690.0	678.7	690.0	735.6	819.0
57.5°	1346.0	1156.4	963.0	777.2	644.5	564.9	527.0	511.8	538.3	568.7	667.3
60°	1088.1	936.5	773.4	610.4	500.5	428.4	398.1	394.3	401.9	439.8	508.0
62.5°	853.1	727.9	599.0	466.3	375.3	345.0	307.1	303.3	310.9	333.6	386.7
65°	614.2	534.6	436.0	341.2	269.2	227.5	212.3	216.1	223.7	238.9	288.1
67.5°	428.4	371.5	303.3	238.9	185.8	166.8	151.7	147.9	151.7	178.2	204.7
70°	288.1	254.0	204.7	182.0	128.9	102.3	106.1	94.8	109.9	109.9	132.7
72.5°	189.5	166.8	136.5	106.1	91.0	72.1	72.1	68.3	75.8	79.6	98.6
75°	98.6	75.8	75.8	53.1	37.9	18.9	34.1	30.3	26.5	30.3	37.9
77.5°	68.3	56.9	53.1	41.7	37.9	30.3	30.3	30.3	30.3	34.1	37.9
80°	41.7	41.7	30.3	26.5	22.7	18.9	22.7	22.7	22.7	22.7	26.5
82.5°	26.5	22.7	22.7	18.9	18.9	15.1	15.1	15.1	15.1	15.1	22.7
85°	22.7	15.1	15.1	11.4	15.1	26.5	11.4	15.1	15.1	15.1	11.4
87.5°	7.6	11.4	11.4	11.4	7.6	3.8	7.6	11.4	11.4	18.9	15.1
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°	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2	7063.2
2.5°	7074.7	7078.5	7078.5	7074.7	7074.7	7067.0	7082.2	7070.9	7074.7	7089.8	7078.5
5°	7082.2	7086.0	7086.0	7082.2	7082.2	7082.2	7086.0	7086.0	7082.2	7078.5	7086.0
7.5°	7097.4	7093.6	7093.6	7086.0	7086.0	7078.5	7086.0	7074.7	7082.2	7074.7	7086.0
10°	7078.5	7082.2	7078.5	7074.7	7074.7	7070.9	7070.9	7059.4	7063.2	7051.8	7059.4
12.5°	7067.0	7063.2	7063.2	7055.6	7048.1	7040.5	7036.7	7025.3	7025.3	6998.8	7010.2
15°	7036.7	7040.5	7029.1	7014.0	7006.4	6987.5	6979.8	6964.6	6949.5	6930.6	6934.4
17.5°	7010.2	6998.8	6983.6	6968.4	6938.1	6923.0	6907.8	6885.0	6877.4	6854.7	6847.2
20°	6930.6	6923.0	6904.1	6877.4	6858.5	6824.4	6809.2	6786.5	6767.5	6744.8	6733.4
22.5°	6828.2	6820.6	6797.8	6771.3	6741.0	6725.8	6710.6	6669.0	6650.0	6627.2	6623.4
25°	6699.3	6687.9	6665.2	6634.8	6619.6	6578.0	6562.8	6532.4	6524.9	6502.1	6498.4
27.5°	6502.1	6487.0	6460.4	6422.5	6396.0	6369.4	6354.3	6331.5	6324.0	6301.2	6297.4
30°	6206.4	6187.4	6134.4	6119.2	6073.7	6047.2	6047.2	6016.8	6020.6	6005.5	6005.5
32.5°	5740.1	5709.8	5668.0	5637.7	5607.3	5592.2	5592.2	5580.8	5588.4	5588.4	5596.0
35°	5122.1	5080.4	5057.6	5038.7	5038.7	5053.8	5099.4	5110.8	5133.5	5152.4	5167.6
37.5°	4329.7	4325.9	4352.5	4375.2	4432.1	4496.5	4576.1	4644.4	4708.8	4754.3	4799.8
40°	3472.9	3567.7	3643.5	3749.7	3836.8	3961.9	4106.0	4223.5	4333.5	4413.1	4496.5
42.5°	2710.8	2832.1	2991.4	3146.8	3302.3	3472.9	3662.5	3825.5	3969.5	4079.5	4166.7
45°	2111.8	2278.6	2472.0	2669.1	2870.0	3082.4	3279.5	3446.3	3598.0	3711.7	3798.9
47.5°	1702.3	1884.3	2104.2	2320.3	2547.8	2771.4	2991.4	3135.5	3260.5	3351.5	3431.2
50°	1406.5	1600.0	1831.2	2077.6	2305.1	2528.8	2718.4	2858.6	2961.1	3040.6	3089.9
52.5°	1175.3	1380.0	1626.5	1872.9	2100.4	2305.1	2475.8	2581.9	2665.3	2722.2	2767.6
55°	970.5	1167.8	1399.0	1630.3	1854.0	2047.3	2187.6	2267.2	2331.6	2365.8	2392.3
57.5°	792.4	974.3	1186.7	1399.0	1592.4	1751.6	1861.6	1941.2	1971.5	1998.0	1994.2
60°	621.8	792.4	985.8	1167.8	1334.6	1463.4	1543.1	1588.6	1611.3	1622.7	1615.1
62.5°	489.1	644.5	792.4	951.6	1073.0	1182.9	1258.8	1258.8	1270.1	1273.9	1285.3
65°	363.9	481.5	610.4	727.9	826.5	898.5	940.3	951.6	966.8	963.0	955.4
67.5°	269.2	356.4	451.1	538.3	606.6	652.1	682.4	709.0	705.2	697.6	693.8
70°	185.8	242.7	326.1	379.1	428.4	473.9	481.5	485.3	489.1	492.9	485.3
72.5°	128.9	170.6	216.1	261.6	291.9	310.9	329.9	333.6	333.6	333.6	329.9
75°	64.5	87.2	128.9	147.9	174.4	182.0	197.1	197.1	208.5	193.3	189.5
77.5°	56.9	68.3	91.0	106.1	117.5	128.9	132.7	144.1	140.3	132.7	136.5
80°	34.1	41.7	56.9	64.5	79.6	83.4	87.2	91.0	87.2	91.0	91.0
82.5°	26.5	30.3	37.9	37.9	49.3	49.3	53.1	53.1	56.9	56.9	56.9
85°	15.1	26.5	22.7	45.5	30.3	30.3	37.9	45.5	37.9	37.9	45.5
87.5°	15.1	15.1	11.4	15.1	15.1	15.1	18.9	22.7	22.7	26.5	22.7
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: P249404

CATALOG NUMBER: LD8B175D010 ER8B1759730 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7063.2	7063.2	7063.2	7063.2
2.5°	7074.7	7082.2	7070.9	7067.0
5°	7086.0	7086.0	7078.5	7078.5
7.5°	7086.0	7086.0	7074.7	7067.0
10°	7055.6	7055.6	7044.3	7036.7
12.5°	6998.8	6998.8	6995.0	6983.6
15°	6926.8	6926.8	6911.6	6900.3
17.5°	6828.2	6835.8	6816.9	6816.9
20°	6722.0	6718.2	6703.1	6695.5
22.5°	6612.1	6604.5	6600.7	6578.0
25°	6494.6	6487.0	6475.6	6464.2
27.5°	6293.6	6289.8	6278.4	6263.3
30°	5986.5	5982.7	5967.6	5967.6
32.5°	5588.4	5584.6	5569.5	5573.3
35°	5175.1	5190.4	5182.7	5167.6
37.5°	4830.1	4841.5	4849.2	4841.5
40°	4542.0	4576.1	4579.9	4587.5
42.5°	4234.9	4280.4	4295.6	4303.1
45°	3867.1	3908.9	3943.0	3935.4
47.5°	3491.8	3522.1	3552.4	3529.7
50°	3131.7	3150.6	3162.0	3162.0
52.5°	2790.5	2790.5	2786.6	2790.5
55°	2399.9	2399.9	2384.8	2392.3
57.5°	1990.4	1998.0	1986.6	1967.7
60°	1611.3	1592.4	1584.8	1573.4
62.5°	1255.0	1255.0	1228.4	1262.5
65°	940.3	928.9	917.5	913.7
67.5°	682.4	678.7	667.3	663.5
70°	481.5	466.3	462.5	454.9
72.5°	322.3	322.3	314.7	314.7
75°	197.1	178.2	174.4	178.2
77.5°	136.5	132.7	132.7	128.9
80°	91.0	87.2	94.8	83.4
82.5°	56.9	60.7	56.9	60.7
85°	37.9	45.5	41.7	41.7
87.5°	22.7	22.7	22.7	22.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)