

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: P249540

Luminaire Tested: **LD8B200D010 ER8B200835 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249540
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: LD8B200D010 ER8B200835 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21667.0 lumens
Efficiency: N/A
Efficacy: 97.0 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

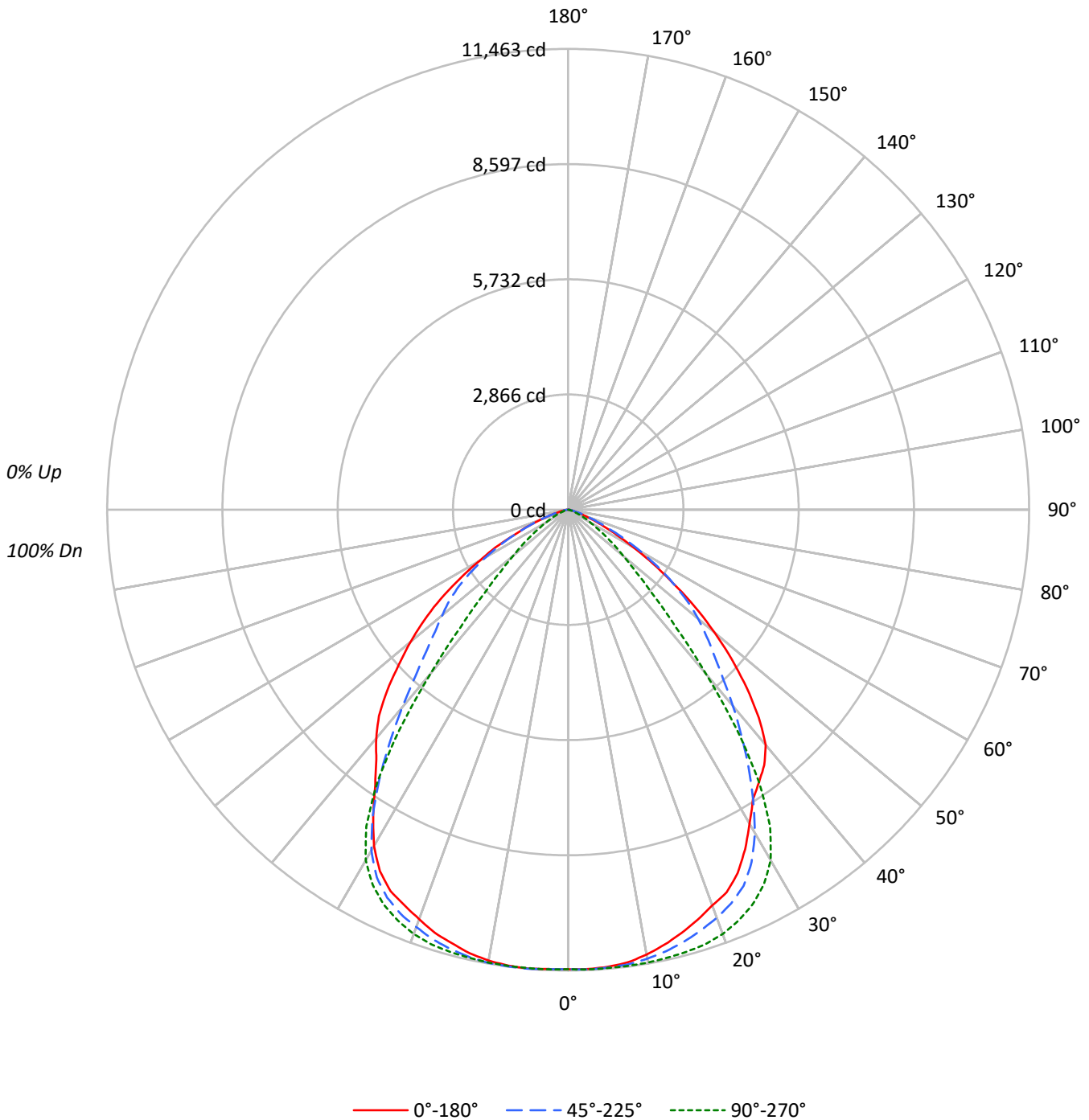
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	352518	352518	352518
5°	353295	354245	354629
10°	351806	358150	356613
15°	347909	363386	356532
20°	343734	368496	355613
25°	339271	368920	355974
30°	320970	358549	343911
35°	311385	311611	314852
40°	307528	214405	298886
45°	274022	128717	277768
50°	227852	85665	245510
55°	170886	59057	208164
60°	115803	39353	157056
65°	69849	25523	107901
70°	38732	13830	66384
75°	17550	5850	34361
80°	15254	6535	23973
85°	17372	8668	23917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1091.0	5.0
10°-20°	3168.5	14.6
20°-30°	4809.1	22.2
30°-40°	5051.0	23.3
40°-50°	3786.9	17.5
50°-60°	2429.8	11.2
60°-70°	1039.4	4.8
70°-80°	245.6	1.1
80°-90°	45.7	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°	9068.6	41.9
0°-40°	14119.6	65.2
0°-60°	20336.3	93.9
0°-90°	21667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21667.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11432	11432	11432	11432	11432	
5°	11414	11432	11444	11463	11457	###
15°	10898	11125	11383	11309	11168	3074
25°	9972	10321	10843	10646	10462	4555
35°	8272	7812	8278	8180	8364	5192
45°	6284	5136	2952	4989	6370	4812
55°	3179	3179	1098	3314	3872	2883
65°	957	1129	350	1454	1479	1022
75°	147	172	49	295	288	215
85°	49	31	24	49	68	52
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°	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9
2.5°	11438.1	11450.4	11444.2	11444.2	11438.1	11444.2	11444.2	11456.6	11456.6	11444.2	11438.1
5°	11413.5	11425.8	11425.8	11413.5	11413.5	11444.2	11425.8	11438.1	11438.1	11431.9	11431.9
7.5°	11358.4	11358.4	11382.8	11364.5	11364.5	11382.8	11376.7	11389.0	11401.3	11407.5	11407.5
10°	11235.5	11247.9	11254.0	11254.0	11260.2	11278.5	11290.8	11315.4	11327.6	11339.9	11346.1
12.5°	11082.2	11100.6	11106.7	11100.6	11119.0	11143.5	11174.3	11204.9	11223.4	11247.9	11266.3
15°	10898.0	10898.0	10910.3	10928.8	10941.1	10977.9	11008.5	11045.3	11094.4	11125.2	11155.8
17.5°	10695.6	10707.9	10726.3	10726.3	10750.9	10812.1	10830.6	10885.9	10941.1	10971.7	11033.1
20°	10474.8	10486.9	10505.4	10517.7	10548.3	10597.4	10634.2	10683.3	10744.7	10800.0	10861.2
22.5°	10302.8	10278.4	10290.5	10302.8	10333.6	10376.6	10419.5	10480.8	10542.2	10597.4	10658.8
25°	9971.5	9977.6	9996.1	10008.3	10045.2	10082.0	10131.1	10204.6	10259.9	10321.3	10388.7
27.5°	9523.6	9529.7	9560.4	9560.4	9591.0	9652.4	9683.0	9744.4	9818.2	9879.4	9959.3
30°	9014.3	9026.5	9026.5	9051.1	9069.4	9100.2	9130.8	9192.2	9229.0	9284.3	9394.8
32.5°	8547.9	8560.1	8553.9	8547.9	8529.5	8523.3	8517.2	8529.5	8541.8	8560.1	8603.0
35°	8271.8	8241.0	8216.6	8173.6	8124.5	8063.1	8007.9	7934.3	7866.7	7811.5	7750.2
37.5°	8007.9	8001.7	7964.9	7903.5	7805.3	7695.0	7566.1	7406.5	7246.9	7075.2	6909.5
40°	7639.7	7621.2	7590.6	7504.7	7394.2	7259.2	7087.5	6891.1	6633.3	6369.5	6099.5
42.5°	7013.8	7019.9	6983.1	6915.6	6811.4	6682.4	6504.5	6289.7	6013.6	5700.6	5350.9
45°	6283.6	6283.6	6271.3	6216.0	6142.5	6038.1	5903.1	5725.2	5455.2	5136.0	4761.7
47.5°	5522.7	5528.8	5510.3	5498.2	5467.4	5400.0	5301.8	5166.8	4976.6	4669.7	4295.4
50°	4749.6	4749.6	4780.2	4774.0	4774.0	4749.6	4706.6	4626.7	4461.1	4215.6	3865.9
52.5°	3976.3	3988.6	4007.1	4031.6	4062.2	4111.3	4062.2	4025.4	3921.1	3730.8	3430.2
55°	3178.6	3190.9	3221.5	3264.5	3301.4	3350.5	3362.7	3362.7	3307.4	3178.6	2951.6
57.5°	2497.5	2479.1	2503.7	2540.5	2589.6	2638.7	2675.4	2718.4	2712.2	2626.3	2442.3
60°	1877.7	1883.9	1902.2	1939.1	1975.9	2018.9	2068.0	2104.7	2123.2	2080.3	1963.6
62.5°	1368.4	1368.4	1392.9	1429.7	1448.2	1509.6	1540.2	1558.7	1577.0	1570.8	1497.3
65°	957.3	969.5	981.8	1000.3	1018.6	1055.4	1073.8	1110.6	1122.9	1129.1	1073.8
67.5°	675.1	656.6	668.9	681.1	699.5	724.1	760.9	760.9	779.3	779.3	742.5
70°	429.6	429.6	435.7	454.0	466.4	472.5	484.8	497.0	515.4	509.3	509.3
72.5°	288.4	282.3	288.4	294.6	300.7	319.1	319.1	325.2	337.5	343.7	319.1
75°	147.3	153.4	165.6	159.6	177.9	165.6	171.8	190.2	184.1	171.8	171.8
77.5°	122.7	122.7	122.7	116.7	128.8	128.8	122.7	135.0	128.8	128.8	122.7
80°	85.9	92.0	85.9	79.7	85.9	79.7	79.7	79.7	79.7	79.7	73.6
82.5°	67.6	55.3	61.4	55.3	61.4	61.4	55.3	49.1	49.1	55.3	49.1
85°	49.1	36.8	42.9	42.9	36.8	36.8	36.8	36.8	36.8	30.6	30.6
87.5°	30.6	18.5	18.5	18.5	24.5	24.5	24.5	18.5	24.5	24.5	12.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9
2.5°	11450.4	11444.2	11456.6	11450.4	11450.4	11444.2	11450.4	11444.2	11456.6	11431.9	11438.1
5°	11450.4	11438.1	11444.2	11450.4	11456.6	11444.2	11444.2	11444.2	11456.6	11444.2	11450.4
7.5°	11425.8	11419.6	11438.1	11450.4	11444.2	11438.1	11450.4	11444.2	11456.6	11450.4	11462.6
10°	11376.7	11382.8	11395.1	11413.5	11419.6	11425.8	11438.1	11438.1	11456.6	11431.9	11444.2
12.5°	11303.1	11327.6	11358.4	11370.5	11395.1	11395.1	11407.5	11413.5	11425.8	11419.6	11438.1
15°	11211.1	11241.7	11278.5	11309.3	11339.9	11358.4	11376.7	11382.8	11401.3	11382.8	11389.0
17.5°	11100.6	11137.4	11192.6	11229.4	11278.5	11297.0	11321.4	11333.7	11352.2	11339.9	11346.1
20°	10947.1	10990.2	11051.5	11106.7	11137.4	11180.3	11211.1	11229.4	11241.7	11229.4	11235.5
22.5°	10732.4	10793.8	10873.5	10916.5	10977.9	11014.7	11020.8	11063.8	11094.4	11063.8	11076.1
25°	10480.8	10542.2	10603.6	10695.6	10750.9	10793.8	10836.8	10842.9	10873.5	10867.4	10861.2
27.5°	10063.5	10143.4	10247.6	10321.3	10394.9	10462.4	10511.5	10523.7	10554.5	10542.2	10548.3
30°	9492.8	9578.8	9677.0	9793.5	9897.9	9965.3	10026.7	10069.7	10100.3	10082.0	10075.8
32.5°	8682.9	8768.8	8873.2	8989.7	9112.5	9210.5	9284.3	9339.5	9376.3	9364.0	9333.3
35°	7756.4	7780.8	7848.4	7940.4	8044.7	8149.0	8216.6	8277.8	8320.8	8333.1	8333.1
37.5°	6805.2	6725.5	6676.4	6676.4	6737.6	6780.6	6842.0	6878.8	6946.3	6970.8	6989.3
40°	5884.7	5700.6	5528.8	5400.0	5314.1	5307.9	5307.9	5326.3	5387.7	5467.4	5541.1
42.5°	5062.5	4767.9	4504.1	4264.7	4093.0	3994.8	3951.8	3958.0	4007.1	4080.7	4203.3
45°	4405.9	4037.7	3706.3	3417.9	3184.7	3031.3	2957.7	2951.6	2988.3	3074.2	3209.4
47.5°	3896.6	3503.8	3129.5	2798.1	2546.6	2380.9	2295.0	2270.5	2295.0	2374.7	2534.3
50°	3473.2	3068.2	2681.6	2337.9	2068.0	1896.2	1816.3	1785.7	1816.3	1883.9	2043.3
52.5°	3080.4	2663.1	2301.1	1969.8	1681.3	1534.0	1448.2	1429.7	1448.2	1527.9	1656.9
55°	2626.3	2270.5	1914.5	1583.1	1331.6	1184.3	1116.8	1098.5	1116.8	1190.5	1325.5
57.5°	2178.5	1871.6	1558.7	1257.9	1043.2	914.2	853.0	828.4	871.3	920.4	1080.0
60°	1761.1	1515.7	1251.8	988.0	810.0	693.4	644.3	638.1	650.4	711.8	822.2
62.5°	1380.7	1178.2	969.5	754.8	607.5	558.4	497.0	491.0	503.1	539.9	626.0
65°	994.1	865.3	705.7	552.2	435.7	368.2	343.7	349.8	362.0	386.6	466.4
67.5°	693.4	601.3	491.0	386.6	300.7	270.0	245.5	239.3	245.5	288.4	331.4
70°	466.4	411.1	331.4	294.6	208.7	165.6	171.8	153.4	177.9	177.9	214.7
72.5°	306.8	270.0	220.9	171.8	147.3	116.7	116.7	110.5	122.7	128.8	159.6
75°	159.6	122.7	122.7	85.9	61.4	30.6	55.3	49.1	42.9	49.1	61.4
77.5°	110.5	92.0	85.9	67.6	61.4	49.1	49.1	49.1	49.1	55.3	61.4
80°	67.6	67.6	49.1	42.9	36.8	30.6	36.8	36.8	36.8	36.8	42.9
82.5°	42.9	36.8	36.8	30.6	30.6	24.5	24.5	24.5	24.5	24.5	36.8
85°	36.8	24.5	24.5	18.5	24.5	42.9	18.5	24.5	24.5	24.5	18.5
87.5°	12.3	18.5	18.5	18.5	12.3	6.2	12.3	18.5	18.5	30.6	24.5
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°	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9	11431.9
2.5°	11450.4	11456.6	11456.6	11450.4	11450.4	11438.1	11462.6	11444.2	11450.4	11474.9	11456.6
5°	11462.6	11468.7	11468.7	11462.6	11462.6	11462.6	11468.7	11468.7	11462.6	11456.6	11468.7
7.5°	11487.2	11481.0	11481.0	11468.7	11468.7	11456.6	11468.7	11450.4	11462.6	11450.4	11468.7
10°	11456.6	11462.6	11456.6	11450.4	11450.4	11444.2	11444.2	11425.8	11431.9	11413.5	11425.8
12.5°	11438.1	11431.9	11431.9	11419.6	11407.5	11395.1	11389.0	11370.5	11370.5	11327.6	11346.1
15°	11389.0	11395.1	11376.7	11352.2	11339.9	11309.3	11297.0	11272.3	11247.9	11217.2	11223.4
17.5°	11346.1	11327.6	11303.1	11278.5	11229.4	11204.9	11180.3	11143.5	11131.2	11094.4	11082.2
20°	11217.2	11204.9	11174.3	11131.2	11100.6	11045.3	11020.8	10984.0	10953.3	10916.5	10898.0
22.5°	11051.5	11039.2	11002.4	10959.4	10910.3	10885.9	10861.2	10793.8	10763.0	10726.3	10720.1
25°	10842.9	10824.4	10787.7	10738.6	10713.9	10646.5	10621.9	10572.8	10560.6	10523.7	10517.7
27.5°	10523.7	10499.2	10456.3	10394.9	10351.9	10309.0	10284.5	10247.6	10235.4	10198.5	10192.5
30°	10045.2	10014.4	9928.5	9904.1	9830.3	9787.4	9787.4	9738.3	9744.4	9720.0	9720.0
32.5°	9290.4	9241.3	9173.7	9124.6	9075.6	9051.1	9051.1	9032.6	9044.9	9044.9	9057.2
35°	8290.1	8222.7	8185.8	8155.2	8155.2	8179.6	8253.4	8271.8	8308.6	8339.2	8363.9
37.5°	7007.6	7001.6	7044.5	7081.3	7173.4	7277.7	7406.5	7517.0	7621.2	7695.0	7768.5
40°	5620.9	5774.3	5897.0	6068.9	6209.9	6412.4	6645.6	6835.8	7013.8	7142.7	7277.7
42.5°	4387.4	4583.8	4841.6	5093.1	5344.7	5620.9	5927.7	6191.6	6424.7	6602.7	6743.8
45°	3417.9	3687.9	4000.9	4320.0	4645.2	4988.9	5307.9	5577.9	5823.4	6007.5	6148.6
47.5°	2755.2	3049.8	3405.6	3755.4	4123.6	4485.6	4841.6	5074.8	5277.2	5424.5	5553.4
50°	2276.5	2589.6	2963.9	3362.7	3730.8	4093.0	4399.7	4626.7	4792.5	4921.3	5001.1
52.5°	1902.2	2233.6	2632.5	3031.3	3399.4	3730.8	4007.1	4178.9	4313.8	4405.9	4479.4
55°	1570.8	1890.0	2264.3	2638.7	3000.7	3313.6	3540.6	3669.6	3773.8	3829.0	3872.0
57.5°	1282.5	1577.0	1920.7	2264.3	2577.2	2835.0	3013.0	3141.8	3190.9	3233.8	3227.7
60°	1006.4	1282.5	1595.4	1890.0	2160.0	2368.5	2497.5	2571.1	2607.9	2626.3	2614.0
62.5°	791.6	1043.2	1282.5	1540.2	1736.6	1914.5	2037.3	2037.3	2055.6	2061.8	2080.3
65°	589.0	779.3	988.0	1178.2	1337.7	1454.3	1521.9	1540.2	1564.8	1558.7	1546.3
67.5°	435.7	576.9	730.2	871.3	981.8	1055.4	1104.5	1147.6	1141.4	1129.1	1122.9
70°	300.7	392.8	527.8	613.6	693.4	767.1	779.3	785.4	791.6	797.7	785.4
72.5°	208.7	276.1	349.8	423.4	472.5	503.1	533.9	539.9	539.9	539.9	533.9
75°	104.3	141.1	208.7	239.3	282.3	294.6	319.1	319.1	337.5	312.9	306.8
77.5°	92.0	110.5	147.3	171.8	190.2	208.7	214.7	233.2	227.0	214.7	220.9
80°	55.3	67.6	92.0	104.3	128.8	135.0	141.1	147.3	141.1	147.3	147.3
82.5°	42.9	49.1	61.4	61.4	79.7	79.7	85.9	85.9	92.0	92.0	92.0
85°	24.5	42.9	36.8	73.6	49.1	49.1	61.4	73.6	61.4	61.4	73.6
87.5°	24.5	24.5	18.5	24.5	24.5	24.5	30.6	36.8	36.8	42.9	36.8
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: P249540

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11431.9	11431.9	11431.9	11431.9
2.5°	11450.4	11462.6	11444.2	11438.1
5°	11468.7	11468.7	11456.6	11456.6
7.5°	11468.7	11468.7	11450.4	11438.1
10°	11419.6	11419.6	11401.3	11389.0
12.5°	11327.6	11327.6	11321.4	11303.1
15°	11211.1	11211.1	11186.4	11168.1
17.5°	11051.5	11063.8	11033.1	11033.1
20°	10879.7	10873.5	10849.1	10836.8
22.5°	10701.8	10689.5	10683.3	10646.5
25°	10511.5	10499.2	10480.8	10462.4
27.5°	10186.3	10180.2	10161.7	10137.2
30°	9689.2	9683.0	9658.6	9658.6
32.5°	9044.9	9038.8	9014.3	9020.4
35°	8376.0	8400.6	8388.3	8363.9
37.5°	7817.6	7836.1	7848.4	7836.1
40°	7351.3	7406.5	7412.7	7425.0
42.5°	6854.3	6927.9	6952.5	6964.7
45°	6259.0	6326.5	6381.8	6369.5
47.5°	5651.5	5700.6	5749.7	5712.9
50°	5068.6	5099.2	5117.7	5117.7
52.5°	4516.4	4516.4	4510.2	4516.4
55°	3884.3	3884.3	3859.8	3872.0
57.5°	3221.5	3233.8	3215.4	3184.7
60°	2607.9	2577.2	2564.9	2546.6
62.5°	2031.2	2031.2	1988.2	2043.3
65°	1521.9	1503.4	1484.9	1478.8
67.5°	1104.5	1098.5	1080.0	1073.8
70°	779.3	754.8	748.6	736.3
72.5°	521.6	521.6	509.3	509.3
75°	319.1	288.4	282.3	288.4
77.5°	220.9	214.7	214.7	208.7
80°	147.3	141.1	153.4	135.0
82.5°	92.0	98.2	92.0	98.2
85°	61.4	73.6	67.6	67.6
87.5°	36.8	36.8	36.8	36.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)