

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: P249782

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B1759730 8LBSWOLI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14288.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

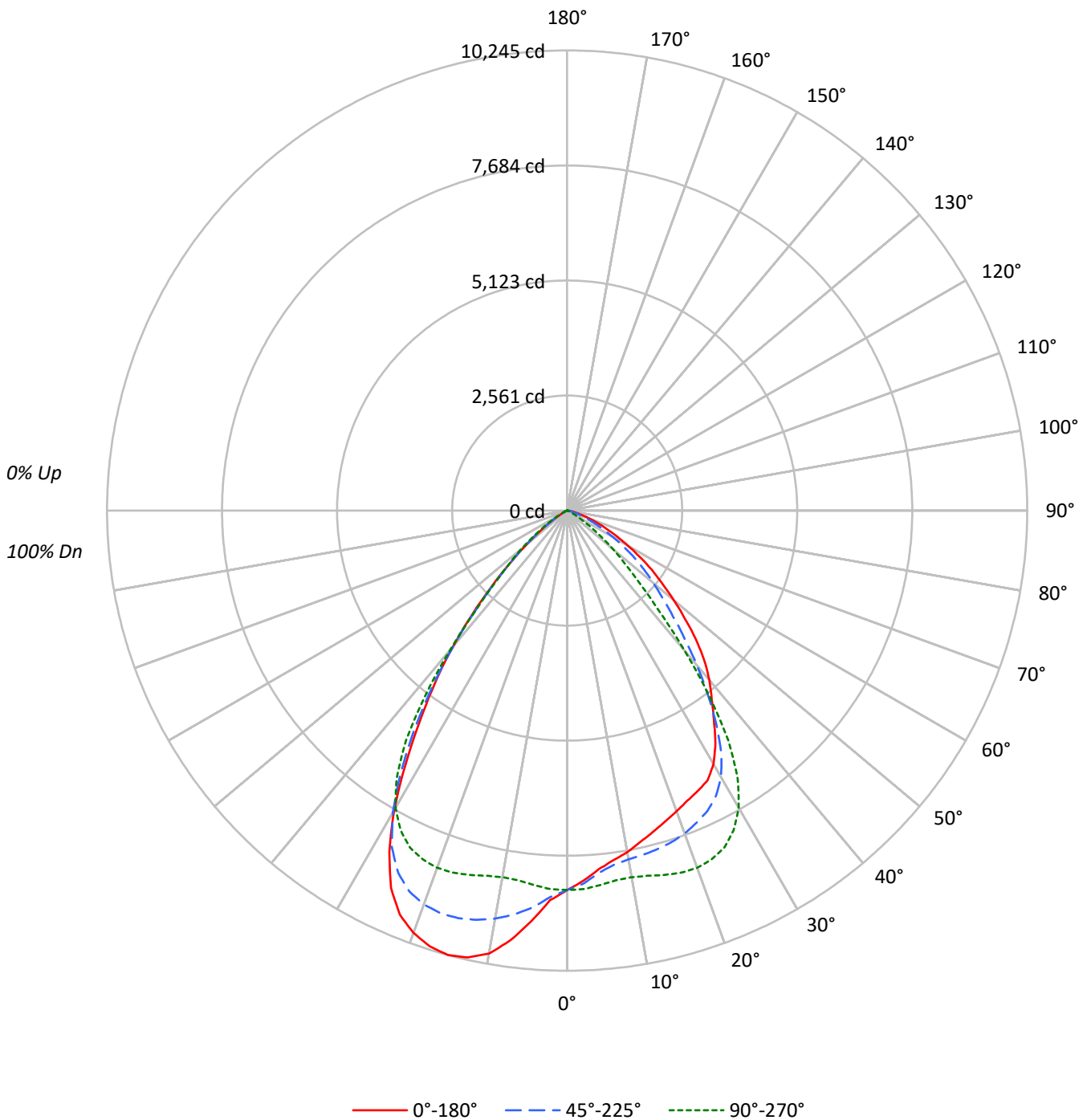
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100				
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91				
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82				
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73				
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66				
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60				
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54				
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49				
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45				
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42				
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38				

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°	812.2	5.7
10°-20°	2430.8	17.0
20°-30°	3722.5	26.1
30°-40°	3649.3	25.5
40°-50°	2197.6	15.4
50°-60°	1011.5	7.1
60°-70°	355.3	2.5
70°-80°	92.9	0.7
80°-90°	15.8	0.1
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°	6965.5	48.8
0°-40°	10614.8	74.3
0°-60°	13823.9	96.8
0°-90°	14288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14288.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8448	8448	8448	8448	8448	
5°	8018	8093	8370	8871	9175	757
15°	7402	7801	8397	9392	10245	2091
25°	6885	7383	8279	8902	9274	3171
35°	5697	5776	6254	5894	5705	3568
45°	4047	3332	2258	2274	2333	3103
55°	2298	1820	647	509	490	2050
65°	975	675	103	51	55	993
75°	253	146	8	0	0	306
85°	40	20	4	0	0	54
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°	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5
2.5°	8251.1	8259.0	8259.0	8259.0	8274.8	8278.9	8274.8	8278.9	8286.7	8314.3	8326.2
5°	8018.2	8006.4	8014.3	8010.3	8030.1	8042.0	8034.0	8045.9	8073.5	8093.3	8113.0
7.5°	7852.5	7852.5	7852.5	7860.3	7872.1	7895.9	7892.0	7899.8	7927.4	7955.0	7982.6
10°	7722.2	7718.3	7718.3	7737.9	7753.7	7781.3	7789.3	7813.0	7848.4	7884.0	7915.5
12.5°	7552.3	7556.4	7576.1	7595.9	7631.3	7674.7	7698.4	7730.1	7785.4	7844.5	7880.1
15°	7402.4	7406.3	7422.2	7461.5	7505.1	7556.4	7607.6	7658.9	7726.1	7801.1	7864.3
17.5°	7256.3	7260.2	7272.0	7315.6	7370.8	7437.9	7497.1	7564.2	7651.1	7737.9	7816.9
20°	7122.0	7118.1	7137.8	7177.3	7248.5	7311.5	7370.8	7449.8	7544.5	7651.1	7741.8
22.5°	6991.7	6991.7	7011.5	7051.0	7114.2	7177.3	7240.5	7323.4	7418.1	7520.8	7627.4
25°	6885.1	6881.2	6908.8	6928.7	6976.0	7039.2	7106.3	7173.4	7268.1	7382.7	7485.2
27.5°	6770.7	6766.8	6770.7	6794.4	6837.8	6885.1	6936.5	6995.8	7074.8	7169.5	7268.1
30°	6518.0	6521.9	6521.9	6541.8	6565.5	6616.7	6644.3	6703.6	6774.6	6853.6	6940.5
32.5°	6143.0	6146.9	6146.9	6154.8	6174.5	6198.2	6222.0	6265.3	6320.6	6387.7	6466.7
35°	5696.9	5696.9	5692.9	5696.9	5708.8	5708.8	5728.4	5708.8	5736.4	5775.9	5835.0
37.5°	5286.3	5278.3	5270.5	5262.6	5250.7	5231.0	5203.4	5156.0	5144.1	5128.3	5132.2
40°	4923.1	4919.2	4895.5	4875.6	4836.2	4788.9	4721.8	4638.9	4571.8	4492.8	4425.7
42.5°	4520.4	4516.4	4496.7	4461.1	4417.7	4346.7	4240.1	4129.6	3995.4	3876.9	3754.6
45°	4046.6	4058.4	4030.8	3991.3	3940.0	3872.9	3754.6	3620.2	3485.9	3332.1	3178.0
47.5°	3553.1	3549.2	3529.5	3505.8	3462.4	3395.3	3316.3	3170.2	3028.0	2886.0	2728.0
50°	3095.1	3079.4	3071.4	3047.8	3020.2	2965.0	2881.9	2763.5	2637.2	2503.0	2356.9
52.5°	2660.9	2660.9	2641.1	2625.3	2601.6	2558.2	2487.2	2392.5	2285.9	2159.5	2005.6
55°	2297.7	2289.8	2270.1	2250.3	2226.6	2198.9	2135.9	2056.9	1942.4	1820.0	1685.8
57.5°	1910.8	1906.8	1899.0	1875.2	1863.4	1835.8	1764.7	1685.8	1587.1	1480.5	1369.9
60°	1563.4	1547.6	1531.7	1516.0	1496.3	1468.7	1421.2	1354.1	1271.2	1176.5	1066.0
62.5°	1251.6	1275.1	1227.8	1227.8	1188.4	1164.6	1121.2	1081.8	994.8	908.0	813.3
65°	975.2	975.2	955.3	939.6	915.8	888.2	844.8	805.3	742.1	675.0	607.9
67.5°	746.2	742.1	722.5	706.7	686.9	671.1	639.6	592.1	544.9	489.6	434.2
70°	548.8	544.9	540.8	513.2	497.4	477.7	454.0	422.5	386.9	347.4	296.1
72.5°	394.7	394.7	383.0	371.1	355.4	339.5	315.9	296.1	264.5	236.9	201.3
75°	252.7	248.8	248.8	229.0	229.0	205.2	189.5	177.6	161.8	146.1	114.6
77.5°	181.7	177.6	173.7	165.7	157.9	150.0	138.1	122.4	110.5	94.7	82.9
80°	122.4	114.6	110.5	110.5	98.6	94.7	98.6	75.1	71.0	59.1	51.3
82.5°	75.1	75.1	71.0	71.0	67.1	63.2	51.3	51.3	47.4	43.4	35.6
85°	39.5	51.3	35.6	39.5	35.6	39.5	35.6	27.6	23.7	19.7	19.7
87.5°	23.7	15.8	15.8	23.7	19.7	15.8	15.8	15.8	11.9	8.0	8.0
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°	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5
2.5°	8318.4	8346.0	8341.9	8377.5	8389.4	8417.0	8417.0	8436.7	8448.5	8476.1	8499.9
5°	8120.9	8164.3	8176.2	8219.6	8255.1	8298.5	8326.2	8369.5	8409.0	8468.3	8523.6
7.5°	7998.6	8034.0	8057.7	8109.1	8148.6	8195.8	8243.3	8302.4	8357.7	8428.9	8507.8
10°	7939.3	7986.7	8022.1	8073.5	8120.9	8172.3	8219.6	8286.7	8349.9	8440.7	8527.5
12.5°	7923.5	7978.7	8022.1	8093.3	8140.6	8195.8	8251.1	8326.2	8393.3	8488.0	8586.8
15°	7923.5	7998.6	8057.7	8136.7	8191.9	8262.9	8322.3	8397.2	8472.2	8570.9	8665.6
17.5°	7907.7	7998.6	8073.5	8164.3	8235.3	8306.5	8381.4	8452.6	8531.4	8626.3	8732.7
20°	7844.5	7959.1	8049.8	8156.4	8231.4	8310.4	8385.5	8464.3	8547.3	8646.0	8736.8
22.5°	7734.0	7868.2	7970.9	8085.3	8172.3	8251.1	8326.2	8405.1	8496.0	8590.7	8685.4
25°	7587.9	7714.2	7824.9	7943.2	8030.1	8116.9	8188.0	8278.9	8361.7	8452.6	8527.5
27.5°	7366.8	7501.0	7607.6	7730.1	7808.9	7892.0	7951.1	8026.2	8105.2	8180.1	8239.4
30°	7035.3	7157.6	7268.1	7378.6	7457.6	7516.9	7580.0	7639.3	7690.6	7741.8	7793.2
32.5°	6549.6	6660.2	6766.8	6869.4	6932.6	6983.9	7031.2	7066.8	7094.4	7122.0	7125.9
35°	5882.5	5973.2	6040.3	6131.1	6190.4	6237.7	6237.7	6253.5	6249.6	6237.7	6225.9
37.5°	5136.3	5171.7	5199.3	5234.9	5238.8	5238.8	5215.3	5195.4	5163.9	5156.0	5132.2
40°	4358.6	4311.1	4275.5	4228.2	4200.6	4141.3	4090.1	4054.5	4003.2	3995.4	3987.4
42.5°	3620.2	3509.7	3411.0	3328.2	3233.4	3150.4	3075.5	3020.2	2980.7	2976.7	2980.7
45°	3020.2	2893.8	2747.7	2633.3	2526.7	2424.0	2325.4	2258.3	2222.7	2214.7	2222.7
47.5°	2566.2	2420.1	2277.9	2147.6	2033.2	1918.6	1820.0	1729.2	1685.8	1673.9	1670.0
50°	2206.9	2056.9	1906.8	1772.5	1646.3	1531.7	1409.4	1322.6	1267.3	1247.5	1231.7
52.5°	1855.6	1721.4	1567.3	1429.2	1302.8	1168.5	1042.3	943.5	888.2	864.7	848.7
55°	1547.6	1413.4	1271.2	1137.0	1002.8	868.6	742.1	647.4	588.2	560.6	540.8
57.5°	1235.6	1109.4	987.0	852.8	742.1	612.0	485.5	402.7	351.3	319.8	304.0
60°	955.3	856.7	750.1	639.6	533.0	426.4	323.7	244.7	205.2	181.7	161.8
62.5°	722.5	639.6	568.4	473.7	390.8	300.0	221.2	157.9	122.4	102.7	94.7
65°	521.1	457.9	394.7	335.6	276.4	209.3	150.0	102.7	71.0	59.1	55.2
67.5°	371.1	319.8	272.3	232.9	189.5	150.0	106.6	71.0	55.2	47.4	43.4
70°	260.5	221.2	189.5	154.0	126.3	98.6	82.9	51.3	31.5	35.6	27.6
72.5°	173.7	146.1	130.3	106.6	86.8	71.0	51.3	35.6	35.6	27.6	23.7
75°	94.7	86.8	67.1	51.3	43.4	39.5	15.8	8.0	3.9	11.9	3.9
77.5°	67.1	59.1	51.3	43.4	35.6	27.6	15.8	15.8	11.9	15.8	8.0
80°	43.4	35.6	31.5	31.5	19.7	11.9	8.0	8.0	11.9	3.9	3.9
82.5°	27.6	23.7	19.7	19.7	19.7	11.9	11.9	11.9	11.9	8.0	8.0
85°	15.8	11.9	8.0	8.0	3.9	8.0	0.0	3.9	3.9	0.0	0.0
87.5°	8.0	3.9	3.9	3.9	3.9	0.0	0.0	3.9	0.0	3.9	0.0
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°	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5	8448.5
2.5°	8515.6	8531.4	8551.2	8567.0	8602.6	8610.4	8626.3	8642.1	8653.9	8665.6	8669.7
5°	8570.9	8630.2	8685.4	8744.6	8819.7	8871.0	8930.2	8981.5	9032.9	9076.3	9107.8
7.5°	8586.8	8677.5	8760.5	8863.1	8973.6	9068.5	9167.1	9265.7	9368.4	9447.4	9514.5
10°	8618.3	8728.8	8835.4	8957.8	9100.0	9226.2	9348.6	9478.9	9609.3	9719.8	9818.6
12.5°	8673.6	8795.9	8910.5	9044.7	9190.8	9332.8	9467.1	9613.2	9751.4	9873.8	9984.3
15°	8764.4	8878.8	8989.5	9115.7	9261.8	9392.2	9526.4	9668.4	9806.7	9933.0	10035.7
17.5°	8823.6	8930.2	9040.7	9155.2	9277.6	9396.1	9522.3	9648.7	9775.0	9889.6	9984.3
20°	8823.6	8926.3	9009.1	9111.8	9226.2	9328.9	9431.6	9542.1	9652.6	9747.4	9838.2
22.5°	8752.6	8851.2	8914.4	8993.4	9092.0	9179.0	9234.2	9356.6	9439.4	9522.3	9589.4
25°	8586.8	8657.8	8709.2	8764.4	8843.4	8902.5	8950.0	9021.0	9103.9	9135.6	9182.9
27.5°	8286.7	8338.0	8365.6	8377.5	8417.0	8448.5	8456.5	8488.0	8523.6	8531.4	8551.2
30°	7813.0	7816.9	7805.0	7801.1	7781.3	7757.7	7753.7	7749.8	7734.0	7718.3	7722.2
32.5°	7098.3	7078.7	7031.2	6980.0	6928.7	6873.4	6841.7	6802.2	6778.5	6755.0	6727.3
35°	6174.5	6127.2	6060.1	5996.9	5937.7	5894.2	5823.2	5799.5	5775.9	5744.2	5736.4
37.5°	5088.8	5061.2	4998.0	4950.7	4919.2	4899.4	4863.8	4840.2	4840.2	4828.4	4820.4
40°	3967.6	3959.8	3936.1	3947.9	3932.2	3940.0	3936.1	3928.1	3947.9	3947.9	3955.9
42.5°	2976.7	2980.7	2992.6	3000.4	3024.1	3028.0	3047.8	3047.8	3059.7	3071.4	3079.4
45°	2214.7	2230.6	2230.6	2246.4	2270.1	2274.0	2281.8	2285.9	2293.7	2313.5	2321.3
47.5°	1662.0	1665.9	1665.9	1670.0	1677.8	1685.8	1681.9	1685.8	1697.6	1689.7	1697.6
50°	1227.8	1231.7	1219.9	1208.0	1219.9	1219.9	1216.0	1204.1	1216.0	1200.2	1208.0
52.5°	837.0	833.0	821.1	825.2	817.2	813.3	813.3	805.3	805.3	805.3	789.6
55°	529.1	529.1	521.1	521.1	517.2	509.3	505.4	501.3	497.4	493.5	493.5
57.5°	296.1	300.0	288.3	284.2	288.3	284.2	276.4	276.4	276.4	264.5	272.3
60°	161.8	157.9	154.0	150.0	146.1	150.0	150.0	142.2	142.2	142.2	146.1
62.5°	86.8	86.8	82.9	82.9	79.0	79.0	86.8	75.1	79.0	75.1	79.0
65°	47.4	59.1	43.4	43.4	55.2	51.3	47.4	47.4	51.3	43.4	47.4
67.5°	51.3	35.6	31.5	35.6	31.5	31.5	31.5	39.5	35.6	27.6	35.6
70°	23.7	27.6	27.6	19.7	31.5	15.8	27.6	15.8	23.7	19.7	23.7
72.5°	23.7	23.7	23.7	15.8	23.7	15.8	19.7	19.7	15.8	15.8	23.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.0	8.0	3.9	3.9	3.9	3.9	8.0	8.0	8.0	0.0	3.9
80°	8.0	8.0	0.0	3.9	0.0	0.0	3.9	0.0	3.9	0.0	8.0
82.5°	3.9	8.0	3.9	3.9	8.0	8.0	8.0	3.9	3.9	3.9	3.9
85°	0.0	3.9	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	3.9
87.5°	0.0	3.9	0.0	0.0	0.0	0.0	3.9	3.9	0.0	0.0	0.0
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: P249782

CATALOG NUMBER: LD8B175D010 ER8B1759730 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8448.5	8448.5	8448.5	8448.5
2.5°	8673.6	8677.5	8685.4	8681.5
5°	9131.5	9163.2	9179.0	9175.1
7.5°	9561.8	9617.2	9648.7	9648.7
10°	9893.5	9956.7	10004.0	10011.9
12.5°	10071.1	10142.3	10205.5	10189.5
15°	10122.4	10193.6	10256.7	10244.8
17.5°	10063.3	10134.3	10181.7	10173.8
20°	9901.4	9960.6	10008.0	10004.0
22.5°	9648.7	9700.1	9739.6	9735.5
25°	9222.3	9257.9	9289.5	9273.7
27.5°	8567.0	8578.8	8598.5	8574.9
30°	7694.5	7702.3	7710.3	7706.4
32.5°	6715.5	6711.4	6703.6	6695.6
35°	5724.5	5724.5	5728.4	5704.7
37.5°	4824.3	4820.4	4832.3	4820.4
40°	3963.7	3959.8	3975.6	3955.9
42.5°	3091.2	3103.1	3107.0	3107.0
45°	2325.4	2329.3	2333.2	2333.2
47.5°	1697.6	1701.5	1721.4	1697.6
50°	1200.2	1204.1	1208.0	1200.2
52.5°	793.5	797.5	793.5	781.6
55°	485.5	489.6	489.6	489.6
57.5°	260.5	264.5	264.5	260.5
60°	142.2	138.1	142.2	134.2
62.5°	75.1	82.9	79.0	71.0
65°	47.4	47.4	47.4	55.2
67.5°	39.5	31.5	35.6	27.6
70°	23.7	27.6	27.6	19.7
72.5°	19.7	19.7	19.7	23.7
75°	0.0	0.0	0.0	0.0
77.5°	8.0	8.0	8.0	3.9
80°	3.9	0.0	3.9	0.0
82.5°	3.9	3.9	8.0	3.9
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)