

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: P249503

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249503
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 ER8B1759727 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11455.0 lumens
Efficiency: N/A
Efficacy: 64.6 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

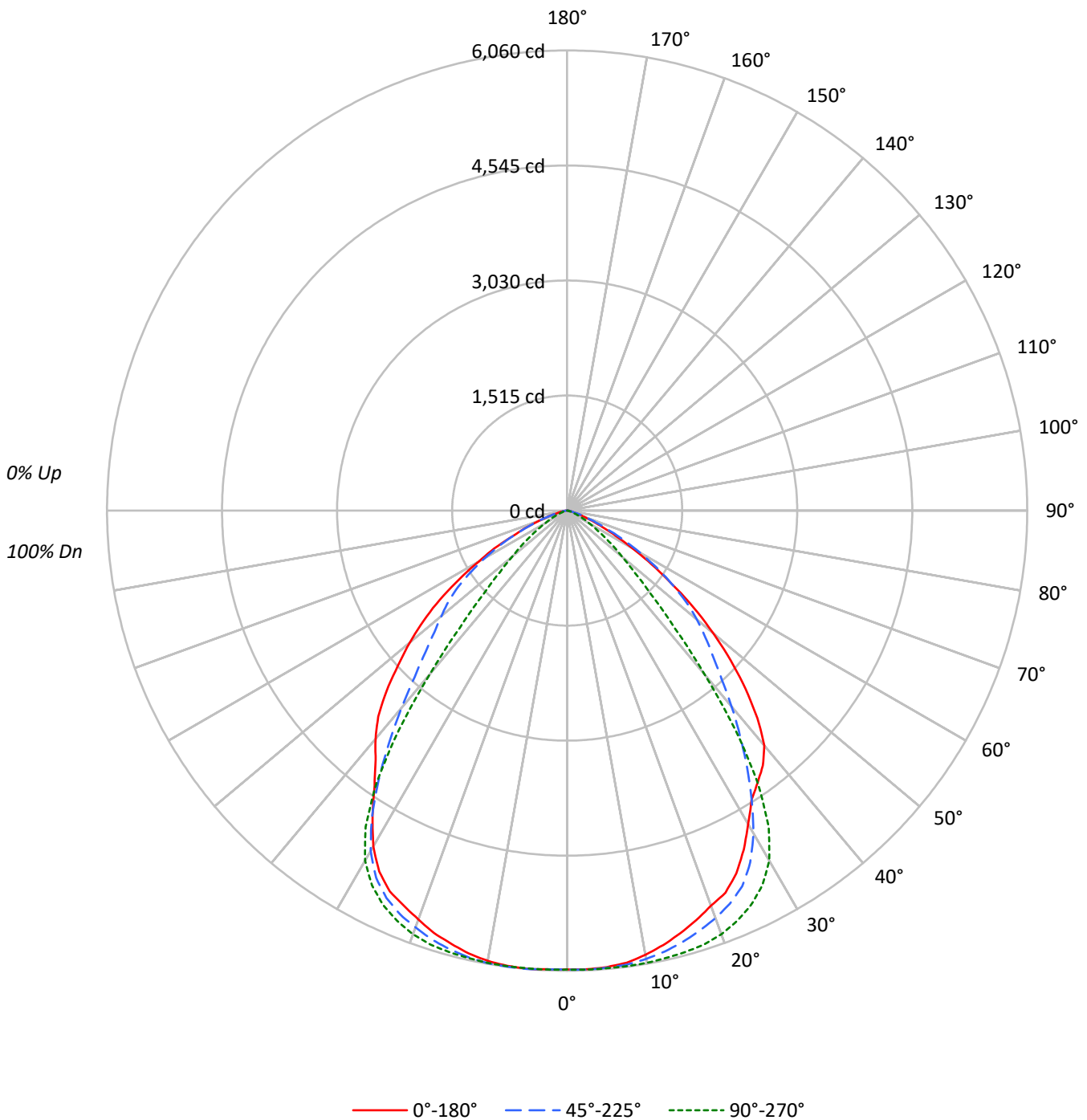
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	576.8	5.0
10°-20°	1675.1	14.6
20°-30°	2542.5	22.2
30°-40°	2670.4	23.3
40°-50°	2002.1	17.5
50°-60°	1284.6	11.2
60°-70°	549.5	4.8
70°-80°	129.8	1.1
80°-90°	24.1	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°	4794.4	41.9
0°-40°	7464.8	65.2
0°-60°	10751.5	93.9
0°-90°	11455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11455.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6044	6044	6044	6044	6044	
5°	6034	6044	6050	6060	6057	573
15°	5762	5882	6018	5979	5904	1625
25°	5272	5457	5732	5629	5531	2408
35°	4373	4130	4376	4324	4422	2745
45°	3322	2715	1560	2638	3367	2544
55°	1680	1680	581	1752	2047	1524
65°	506	597	185	769	782	540
75°	78	91	26	156	152	113
85°	26	16	13	26	36	27
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°	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9
2.5°	6047.1	6053.6	6050.4	6050.4	6047.1	6050.4	6050.4	6056.9	6056.9	6050.4	6047.1
5°	6034.1	6040.6	6040.6	6034.1	6034.1	6050.4	6040.6	6047.1	6047.1	6043.9	6043.9
7.5°	6005.0	6005.0	6017.9	6008.2	6008.2	6017.9	6014.7	6021.2	6027.7	6030.9	6030.9
10°	5940.1	5946.6	5949.8	5949.8	5953.1	5962.8	5969.3	5982.3	5988.7	5995.2	5998.5
12.5°	5859.0	5868.7	5871.9	5868.7	5878.5	5891.4	5907.7	5923.9	5933.6	5946.6	5956.3
15°	5761.6	5761.6	5768.1	5777.9	5784.4	5803.8	5820.0	5839.5	5865.4	5881.7	5897.9
17.5°	5654.6	5661.1	5670.8	5670.8	5683.8	5716.2	5726.0	5755.2	5784.4	5800.6	5833.0
20°	5537.8	5544.3	5554.0	5560.5	5576.7	5602.7	5622.1	5648.1	5680.6	5709.8	5742.2
22.5°	5446.9	5434.0	5440.4	5446.9	5463.2	5485.9	5508.6	5541.0	5573.5	5602.7	5635.2
25°	5271.8	5275.0	5284.8	5291.2	5310.7	5330.2	5356.1	5395.0	5424.2	5456.7	5492.4
27.5°	5035.0	5038.2	5054.4	5054.4	5070.6	5103.1	5119.3	5151.7	5190.7	5223.1	5265.3
30°	4765.7	4772.1	4772.1	4785.2	4794.8	4811.1	4827.3	4859.8	4879.2	4908.4	4966.9
32.5°	4519.2	4525.6	4522.3	4519.2	4509.4	4506.1	4502.9	4509.4	4515.9	4525.6	4548.3
35°	4373.2	4356.9	4344.0	4321.3	4295.3	4262.8	4233.6	4194.7	4159.0	4129.8	4097.4
37.5°	4233.6	4230.4	4210.9	4178.5	4126.6	4068.2	4000.1	3915.7	3831.3	3740.5	3653.0
40°	4039.0	4029.2	4013.0	3967.6	3909.2	3837.8	3747.0	3643.2	3506.9	3367.4	3224.7
42.5°	3708.1	3711.3	3691.9	3656.1	3601.1	3532.9	3438.8	3325.3	3179.3	3013.8	2828.9
45°	3322.0	3322.0	3315.5	3286.3	3247.4	3192.3	3120.9	3026.8	2884.1	2715.3	2517.4
47.5°	2919.7	2923.0	2913.2	2906.8	2890.5	2854.9	2803.0	2731.6	2631.0	2468.8	2270.9
50°	2511.0	2511.0	2527.2	2524.0	2524.0	2511.0	2488.3	2446.1	2358.5	2228.7	2043.9
52.5°	2102.2	2108.7	2118.5	2131.4	2147.6	2173.6	2147.6	2128.2	2073.0	1972.4	1813.5
55°	1680.5	1687.0	1703.2	1725.9	1745.4	1771.4	1777.8	1777.8	1748.6	1680.5	1560.4
57.5°	1320.4	1310.6	1323.7	1343.1	1369.1	1395.0	1414.5	1437.2	1433.9	1388.5	1291.2
60°	992.7	996.0	1005.7	1025.2	1044.6	1067.3	1093.3	1112.7	1122.5	1099.8	1038.1
62.5°	723.5	723.5	736.4	755.9	765.6	798.1	814.3	824.0	833.7	830.5	791.6
65°	506.1	512.6	519.1	528.8	538.5	558.0	567.7	587.2	593.7	596.9	567.7
67.5°	356.9	347.1	353.6	360.1	369.8	382.8	402.3	402.3	412.0	412.0	392.5
70°	227.1	227.1	230.4	240.0	246.6	249.8	256.3	262.7	272.5	269.3	269.3
72.5°	152.5	149.2	152.5	155.7	159.0	168.7	168.7	171.9	178.4	181.7	168.7
75°	77.9	81.1	87.6	84.4	94.1	87.6	90.8	100.6	97.3	90.8	90.8
77.5°	64.9	64.9	64.9	61.7	68.1	68.1	64.9	71.4	68.1	68.1	64.9
80°	45.4	48.7	45.4	42.2	45.4	42.2	42.2	42.2	42.2	42.2	38.9
82.5°	35.7	29.2	32.5	29.2	32.5	32.5	29.2	26.0	26.0	29.2	26.0
85°	26.0	19.4	22.7	22.7	19.4	19.4	19.4	19.4	19.4	16.2	16.2
87.5°	16.2	9.8	9.8	9.8	12.9	12.9	12.9	9.8	12.9	12.9	6.5
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: P249503

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9
2.5°	6053.6	6050.4	6056.9	6053.6	6053.6	6050.4	6053.6	6050.4	6056.9	6043.9	6047.1
5°	6053.6	6047.1	6050.4	6053.6	6056.9	6050.4	6050.4	6050.4	6056.9	6050.4	6053.6
7.5°	6040.6	6037.4	6047.1	6053.6	6050.4	6047.1	6053.6	6050.4	6056.9	6053.6	6060.1
10°	6014.7	6017.9	6024.4	6034.1	6037.4	6040.6	6047.1	6047.1	6056.9	6043.9	6050.4
12.5°	5975.8	5988.7	6005.0	6011.4	6024.4	6024.4	6030.9	6034.1	6040.6	6037.4	6047.1
15°	5927.1	5943.3	5962.8	5979.0	5995.2	6005.0	6014.7	6017.9	6027.7	6017.9	6021.2
17.5°	5868.7	5888.1	5917.4	5936.8	5962.8	5972.5	5985.5	5992.0	6001.7	5995.2	5998.5
20°	5787.6	5810.3	5842.7	5871.9	5888.1	5910.8	5927.1	5936.8	5943.3	5936.8	5940.1
22.5°	5674.1	5706.5	5748.7	5771.4	5803.8	5823.3	5826.5	5849.2	5865.4	5849.2	5855.8
25°	5541.0	5573.5	5605.9	5654.6	5683.8	5706.5	5729.2	5732.5	5748.7	5745.4	5742.2
27.5°	5320.4	5362.6	5417.7	5456.7	5495.6	5531.3	5557.3	5563.7	5580.0	5573.5	5576.7
30°	5018.7	5064.2	5116.1	5177.7	5232.9	5268.5	5301.0	5323.7	5339.9	5330.2	5326.9
32.5°	4590.5	4635.9	4691.1	4752.7	4817.6	4869.5	4908.4	4937.6	4957.1	4950.6	4934.4
35°	4100.7	4113.6	4149.3	4198.0	4253.1	4308.2	4344.0	4376.4	4399.1	4405.6	4405.6
37.5°	3597.8	3555.6	3529.7	3529.7	3562.1	3584.8	3617.2	3636.7	3672.4	3685.4	3695.1
40°	3111.1	3013.8	2923.0	2854.9	2809.5	2806.2	2806.2	2815.9	2848.4	2890.5	2929.5
42.5°	2676.4	2520.7	2381.2	2254.7	2163.9	2112.0	2089.3	2092.5	2118.5	2157.4	2222.2
45°	2329.3	2134.7	1959.5	1807.0	1683.7	1602.6	1563.7	1560.4	1579.9	1625.3	1696.7
47.5°	2060.1	1852.4	1654.5	1479.3	1346.4	1258.7	1213.3	1200.4	1213.3	1255.5	1339.8
50°	1836.2	1622.1	1417.7	1236.0	1093.3	1002.5	960.3	944.1	960.3	996.0	1080.3
52.5°	1628.6	1408.0	1216.6	1041.4	888.9	811.0	765.6	755.9	765.6	807.8	876.0
55°	1388.5	1200.4	1012.2	837.0	704.0	626.1	590.4	580.7	590.4	629.4	700.8
57.5°	1151.7	989.5	824.0	665.0	551.5	483.3	451.0	437.9	460.6	486.6	571.0
60°	931.0	801.3	661.8	522.3	428.3	366.6	340.6	337.4	343.9	376.3	434.7
62.5°	730.0	622.9	512.6	399.0	321.2	295.2	262.7	259.6	266.0	285.5	330.9
65°	525.6	457.5	373.1	292.0	230.4	194.6	181.7	185.0	191.4	204.4	246.6
67.5°	366.6	317.9	259.6	204.4	159.0	142.7	129.8	126.5	129.8	152.5	175.2
70°	246.6	217.3	175.2	155.7	110.3	87.6	90.8	81.1	94.1	94.1	113.5
72.5°	162.2	142.7	116.8	90.8	77.9	61.7	61.7	58.4	64.9	68.1	84.4
75°	84.4	64.9	64.9	45.4	32.5	16.2	29.2	26.0	22.7	26.0	32.5
77.5°	58.4	48.7	45.4	35.7	32.5	26.0	26.0	26.0	26.0	29.2	32.5
80°	35.7	35.7	26.0	22.7	19.4	16.2	19.4	19.4	19.4	19.4	22.7
82.5°	22.7	19.4	19.4	16.2	16.2	12.9	12.9	12.9	12.9	12.9	19.4
85°	19.4	12.9	12.9	9.8	12.9	22.7	9.8	12.9	12.9	12.9	9.8
87.5°	6.5	9.8	9.8	9.8	6.5	3.3	6.5	9.8	9.8	16.2	12.9
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°	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9	6043.9
2.5°	6053.6	6056.9	6056.9	6053.6	6053.6	6047.1	6060.1	6050.4	6053.6	6066.6	6056.9
5°	6060.1	6063.3	6063.3	6060.1	6060.1	6060.1	6063.3	6063.3	6060.1	6056.9	6063.3
7.5°	6073.1	6069.8	6069.8	6063.3	6063.3	6056.9	6063.3	6053.6	6060.1	6053.6	6063.3
10°	6056.9	6060.1	6056.9	6053.6	6053.6	6050.4	6050.4	6040.6	6043.9	6034.1	6040.6
12.5°	6047.1	6043.9	6043.9	6037.4	6030.9	6024.4	6021.2	6011.4	6011.4	5988.7	5998.5
15°	6021.2	6024.4	6014.7	6001.7	5995.2	5979.0	5972.5	5959.5	5946.6	5930.4	5933.6
17.5°	5998.5	5988.7	5975.8	5962.8	5936.8	5923.9	5910.8	5891.4	5884.9	5865.4	5859.0
20°	5930.4	5923.9	5907.7	5884.9	5868.7	5839.5	5826.5	5807.1	5790.8	5771.4	5761.6
22.5°	5842.7	5836.2	5816.8	5794.1	5768.1	5755.2	5742.2	5706.5	5690.2	5670.8	5667.5
25°	5732.5	5722.7	5703.3	5677.3	5664.3	5628.6	5615.6	5589.7	5583.2	5563.7	5560.5
27.5°	5563.7	5550.8	5528.1	5495.6	5472.9	5450.2	5437.3	5417.7	5411.3	5391.8	5388.6
30°	5310.7	5294.5	5249.1	5236.1	5197.1	5174.4	5174.4	5148.5	5151.7	5138.8	5138.8
32.5°	4911.7	4885.7	4850.0	4824.1	4798.1	4785.2	4785.2	4775.4	4781.9	4781.9	4788.4
35°	4382.9	4347.2	4327.7	4311.5	4311.5	4324.4	4363.4	4373.2	4392.6	4408.8	4421.8
37.5°	3704.8	3701.6	3724.3	3743.8	3792.4	3847.6	3915.7	3974.1	4029.2	4068.2	4107.1
40°	2971.7	3052.8	3117.6	3208.5	3283.1	3390.1	3513.4	3614.0	3708.1	3776.2	3847.6
42.5°	2319.6	2423.4	2559.7	2692.6	2825.7	2971.7	3133.9	3273.4	3396.7	3490.7	3565.3
45°	1807.0	1949.7	2115.2	2283.9	2455.8	2637.5	2806.2	2949.0	3078.7	3176.1	3250.7
47.5°	1456.6	1612.4	1800.5	1985.4	2180.1	2371.5	2559.7	2682.9	2790.0	2867.8	2936.0
50°	1203.6	1369.1	1567.0	1777.8	1972.4	2163.9	2326.1	2446.1	2533.7	2601.8	2644.0
52.5°	1005.7	1180.9	1391.8	1602.6	1797.2	1972.4	2118.5	2209.3	2280.7	2329.3	2368.2
55°	830.5	999.2	1197.1	1395.0	1586.4	1751.8	1871.9	1940.0	1995.1	2024.3	2047.0
57.5°	678.1	833.7	1015.4	1197.1	1362.6	1498.8	1592.9	1661.0	1687.0	1709.7	1706.4
60°	532.1	678.1	843.5	999.2	1142.0	1252.2	1320.4	1359.3	1378.7	1388.5	1382.0
62.5°	418.5	551.5	678.1	814.3	918.1	1012.2	1077.1	1077.1	1086.8	1090.0	1099.8
65°	311.4	412.0	522.3	622.9	707.2	768.9	804.6	814.3	827.3	824.0	817.5
67.5°	230.4	305.0	386.0	460.6	519.1	558.0	583.9	606.7	603.4	596.9	593.7
70°	159.0	207.7	279.0	324.4	366.6	405.5	412.0	415.2	418.5	421.7	415.2
72.5°	110.3	146.0	185.0	223.9	249.8	266.0	282.3	285.5	285.5	285.5	282.3
75°	55.2	74.6	110.3	126.5	149.2	155.7	168.7	168.7	178.4	165.4	162.2
77.5°	48.7	58.4	77.9	90.8	100.6	110.3	113.5	123.3	120.0	113.5	116.8
80°	29.2	35.7	48.7	55.2	68.1	71.4	74.6	77.9	74.6	77.9	77.9
82.5°	22.7	26.0	32.5	32.5	42.2	42.2	45.4	45.4	48.7	48.7	48.7
85°	12.9	22.7	19.4	38.9	26.0	26.0	32.5	38.9	32.5	32.5	38.9
87.5°	12.9	12.9	9.8	12.9	12.9	12.9	16.2	19.4	19.4	22.7	19.4
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: P249503

CATALOG NUMBER: LD8B175D010 ER8B1759727 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6043.9	6043.9	6043.9	6043.9
2.5°	6053.6	6060.1	6050.4	6047.1
5°	6063.3	6063.3	6056.9	6056.9
7.5°	6063.3	6063.3	6053.6	6047.1
10°	6037.4	6037.4	6027.7	6021.2
12.5°	5988.7	5988.7	5985.5	5975.8
15°	5927.1	5927.1	5914.1	5904.4
17.5°	5842.7	5849.2	5833.0	5833.0
20°	5751.9	5748.7	5735.7	5729.2
22.5°	5657.9	5651.4	5648.1	5628.6
25°	5557.3	5550.8	5541.0	5531.3
27.5°	5385.3	5382.1	5372.3	5359.4
30°	5122.5	5119.3	5106.3	5106.3
32.5°	4781.9	4778.7	4765.7	4769.0
35°	4428.3	4441.3	4434.8	4421.8
37.5°	4133.1	4142.8	4149.3	4142.8
40°	3886.5	3915.7	3919.0	3925.5
42.5°	3623.8	3662.7	3675.7	3682.1
45°	3309.0	3344.7	3373.9	3367.4
47.5°	2987.8	3013.8	3039.8	3020.3
50°	2679.7	2695.9	2705.7	2705.7
52.5°	2387.7	2387.7	2384.5	2387.7
55°	2053.6	2053.6	2040.6	2047.0
57.5°	1703.2	1709.7	1699.9	1683.7
60°	1378.7	1362.6	1356.0	1346.4
62.5°	1073.8	1073.8	1051.1	1080.3
65°	804.6	794.8	785.1	781.8
67.5°	583.9	580.7	571.0	567.7
70°	412.0	399.0	395.8	389.3
72.5°	275.8	275.8	269.3	269.3
75°	168.7	152.5	149.2	152.5
77.5°	116.8	113.5	113.5	110.3
80°	77.9	74.6	81.1	71.4
82.5°	48.7	51.9	48.7	51.9
85°	32.5	38.9	35.7	35.7
87.5°	19.4	19.4	19.4	19.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)