

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: P249116

Luminaire Tested: **LD8B175D010 ER8B175840 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249116
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 ER8B175840 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18469.0 lumens
Efficiency: N/A
Efficacy: 104.2 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

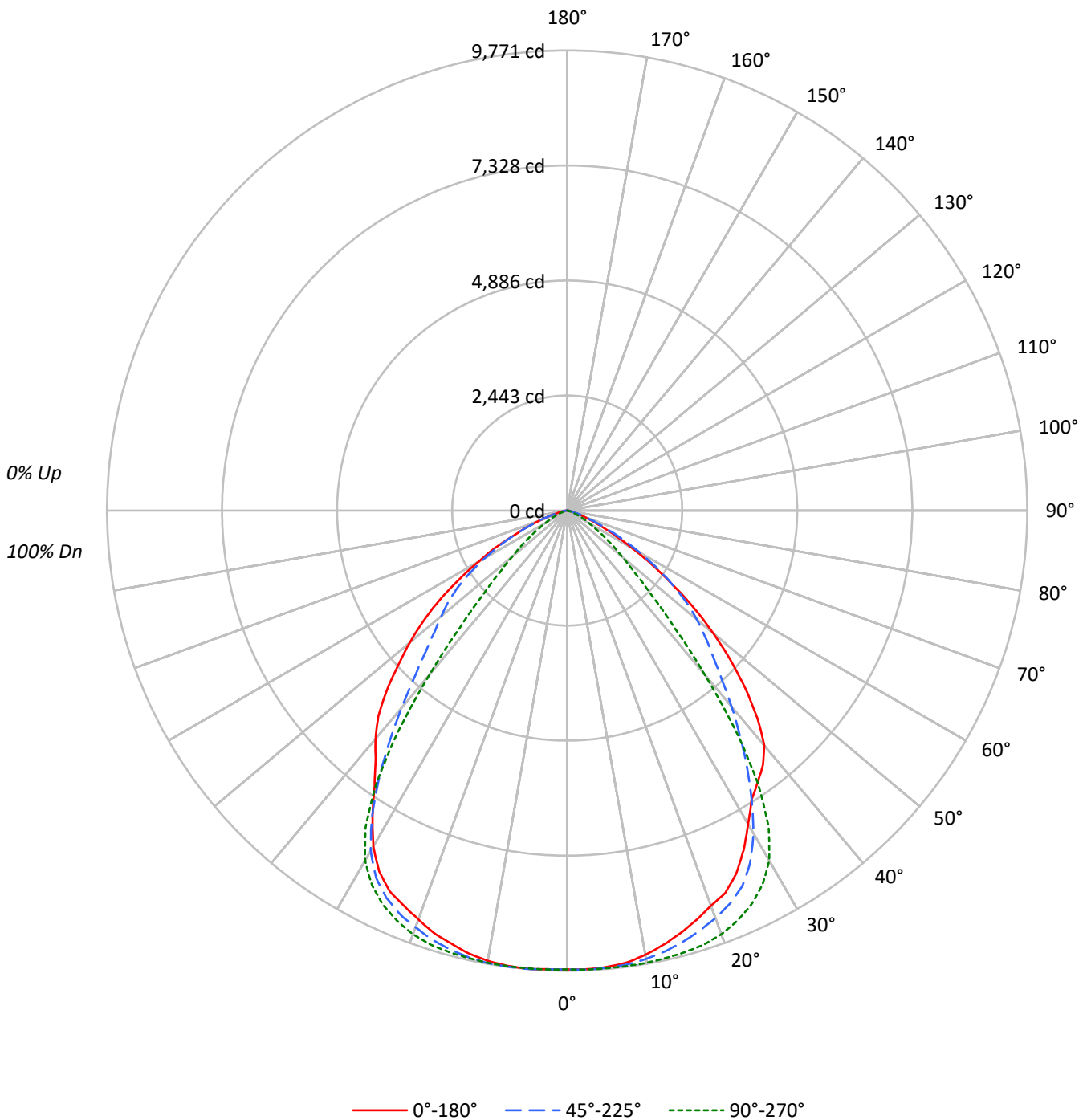
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	300488	300488	300488
5°	301149	301960	302285
10°	299881	305289	303977
15°	296559	309753	303908
20°	292998	314108	303125
25°	289195	314468	303434
30°	273595	305627	293150
35°	265425	265617	268380
40°	262138	182757	254771
45°	233575	109716	236771
50°	194218	73019	209272
55°	145661	50337	177440
60°	98713	33544	133873
65°	59539	21758	91972
70°	33016	11793	56584
75°	14964	4992	29297
80°	12999	5576	20439
85°	14825	7395	20379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	930.0	5.0
10°-20°	2700.8	14.6
20°-30°	4099.3	22.2
30°-40°	4305.5	23.3
40°-50°	3228.0	17.5
50°-60°	2071.1	11.2
60°-70°	886.0	4.8
70°-80°	209.3	1.1
80°-90°	38.9	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°	7730.1	41.9
0°-40°	12035.6	65.2
0°-60°	17334.7	93.9
0°-90°	18469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18469.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9745	9745	9745	9745	9745	
5°	9729	9745	9755	9771	9766	924
15°	9290	9483	9703	9640	9520	2620
25°	8500	8798	9242	9075	8918	3883
35°	7051	6658	7056	6972	7129	4425
45°	5356	4378	2516	4252	5429	4102
55°	2709	2709	936	2824	3300	2458
65°	816	962	298	1240	1260	871
75°	126	146	42	251	246	183
85°	42	26	21	42	58	44
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°	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6
2.5°	9749.9	9760.3	9755.1	9755.1	9749.9	9755.1	9755.1	9765.6	9765.6	9755.1	9749.9
5°	9728.9	9739.4	9739.4	9728.9	9728.9	9755.1	9739.4	9749.9	9749.9	9744.6	9744.6
7.5°	9681.9	9681.9	9702.8	9687.1	9687.1	9702.8	9697.5	9708.0	9718.5	9723.7	9723.7
10°	9577.2	9587.7	9592.9	9592.9	9598.2	9613.8	9624.3	9645.3	9655.7	9666.2	9671.4
12.5°	9446.5	9462.1	9467.4	9462.1	9477.9	9498.8	9525.0	9551.1	9566.8	9587.7	9603.4
15°	9289.5	9289.5	9300.0	9315.7	9326.2	9357.6	9383.7	9415.0	9456.9	9483.1	9509.2
17.5°	9117.0	9127.5	9143.1	9143.1	9164.1	9216.3	9232.0	9279.1	9326.2	9352.3	9404.7
20°	8928.7	8939.1	8954.8	8965.3	8991.4	9033.3	9064.6	9106.5	9158.8	9205.9	9258.1
22.5°	8782.2	8761.3	8771.7	8782.2	8808.4	8845.0	8881.6	8933.8	8986.2	9033.3	9085.6
25°	8499.7	8505.0	8520.7	8531.1	8562.5	8593.9	8635.7	8698.5	8745.6	8797.9	8855.4
27.5°	8117.9	8123.2	8149.3	8149.3	8175.4	8227.7	8253.8	8306.2	8369.0	8421.2	8489.3
30°	7683.8	7694.2	7694.2	7715.2	7730.8	7757.0	7783.1	7835.5	7866.8	7913.9	8008.1
32.5°	7286.3	7296.7	7291.4	7286.3	7270.5	7265.3	7260.0	7270.5	7281.0	7296.7	7333.3
35°	7050.9	7024.7	7003.8	6967.2	6925.4	6873.0	6825.9	6763.2	6705.6	6658.5	6606.3
37.5°	6825.9	6820.7	6789.3	6737.0	6653.3	6559.2	6449.4	6313.3	6177.3	6030.9	5889.7
40°	6512.1	6496.4	6470.3	6397.0	6302.9	6187.8	6041.4	5874.0	5654.2	5429.4	5199.2
42.5°	5978.5	5983.8	5952.4	5894.8	5806.0	5696.1	5544.4	5361.4	5126.0	4859.2	4561.1
45°	5356.1	5356.1	5345.7	5298.6	5235.8	5146.9	5031.8	4880.2	4650.1	4378.0	4058.9
47.5°	4707.5	4712.8	4697.0	4686.7	4660.4	4603.0	4519.3	4404.2	4242.0	3980.4	3661.4
50°	4048.5	4048.5	4074.6	4069.4	4069.4	4048.5	4011.9	3943.8	3802.7	3593.4	3295.3
52.5°	3389.4	3399.9	3415.6	3436.5	3462.6	3504.5	3462.6	3431.3	3342.3	3180.2	2923.9
55°	2709.4	2719.9	2746.0	2782.6	2814.1	2856.0	2866.3	2866.3	2819.2	2709.4	2515.9
57.5°	2128.9	2113.2	2134.1	2165.5	2207.3	2249.2	2280.6	2317.2	2311.9	2238.7	2081.8
60°	1600.6	1605.8	1621.4	1652.9	1684.3	1720.9	1762.7	1794.1	1809.8	1773.2	1673.8
62.5°	1166.4	1166.4	1187.3	1218.7	1234.4	1286.8	1312.9	1328.6	1344.2	1339.0	1276.3
65°	816.0	826.4	836.9	852.6	868.2	899.6	915.3	946.7	957.2	962.4	915.3
67.5°	575.4	559.7	570.2	580.5	596.3	617.3	648.6	648.6	664.2	664.2	632.9
70°	366.2	366.2	371.4	387.0	397.5	402.8	413.3	423.6	439.4	434.1	434.1
72.5°	245.9	240.6	245.9	251.1	256.4	272.0	272.0	277.2	287.7	293.0	272.0
75°	125.6	130.8	141.2	136.0	151.7	141.2	146.4	162.2	156.9	146.4	146.4
77.5°	104.6	104.6	104.6	99.4	109.8	109.8	104.6	115.1	109.8	109.8	104.6
80°	73.2	78.5	73.2	68.0	73.2	68.0	68.0	68.0	68.0	68.0	62.7
82.5°	57.6	47.1	52.3	47.1	52.3	52.3	47.1	41.9	41.9	47.1	41.9
85°	41.9	31.4	36.6	36.6	31.4	31.4	31.4	31.4	31.4	26.1	26.1
87.5°	26.1	15.7	15.7	15.7	20.9	20.9	20.9	15.7	20.9	20.9	10.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6
2.5°	9760.3	9755.1	9765.6	9760.3	9760.3	9755.1	9760.3	9755.1	9765.6	9744.6	9749.9
5°	9760.3	9749.9	9755.1	9760.3	9765.6	9755.1	9755.1	9755.1	9765.6	9755.1	9760.3
7.5°	9739.4	9734.1	9749.9	9760.3	9755.1	9749.9	9760.3	9755.1	9765.6	9760.3	9770.7
10°	9697.5	9702.8	9713.3	9728.9	9734.1	9739.4	9749.9	9749.9	9765.6	9744.6	9755.1
12.5°	9634.8	9655.7	9681.9	9692.3	9713.3	9713.3	9723.7	9728.9	9739.4	9734.1	9749.9
15°	9556.3	9582.5	9613.8	9640.0	9666.2	9681.9	9697.5	9702.8	9718.5	9702.8	9708.0
17.5°	9462.1	9493.5	9540.6	9572.0	9613.8	9629.5	9650.4	9660.9	9676.6	9666.2	9671.4
20°	9331.3	9368.1	9420.3	9467.4	9493.5	9530.1	9556.3	9572.0	9582.5	9572.0	9577.2
22.5°	9148.3	9200.7	9268.6	9305.2	9357.6	9388.9	9394.2	9430.8	9456.9	9430.8	9441.3
25°	8933.8	8986.2	9038.5	9117.0	9164.1	9200.7	9237.3	9242.5	9268.6	9263.4	9258.1
27.5°	8578.2	8646.2	8735.1	8797.9	8860.6	8918.2	8960.1	8970.4	8996.7	8986.2	8991.4
30°	8091.7	8165.0	8248.7	8348.0	8437.0	8494.5	8546.8	8583.4	8609.5	8593.9	8588.7
32.5°	7401.3	7474.5	7563.5	7662.8	7767.5	7851.1	7913.9	7961.0	7992.4	7981.9	7955.8
35°	6611.5	6632.4	6690.0	6768.5	6857.3	6946.2	7003.8	7056.0	7092.6	7103.1	7103.1
37.5°	5800.8	5732.8	5691.0	5691.0	5743.2	5779.8	5832.1	5863.5	5921.1	5941.9	5957.7
40°	5016.1	4859.2	4712.8	4603.0	4529.8	4524.5	4524.5	4540.1	4592.5	4660.4	4723.3
42.5°	4315.3	4064.1	3839.3	3635.3	3488.9	3405.2	3368.5	3373.8	3415.6	3478.4	3582.9
45°	3755.6	3441.8	3159.3	2913.4	2714.7	2583.9	2521.2	2515.9	2547.3	2620.5	2735.7
47.5°	3321.5	2986.6	2667.6	2385.1	2170.7	2029.5	1956.2	1935.4	1956.2	2024.2	2160.2
50°	2960.5	2615.4	2285.8	1992.8	1762.7	1616.3	1548.2	1522.1	1548.2	1605.8	1741.7
52.5°	2625.7	2270.1	1961.5	1679.0	1433.2	1307.6	1234.4	1218.7	1234.4	1302.4	1412.3
55°	2238.7	1935.4	1631.9	1349.5	1135.1	1009.5	951.9	936.3	951.9	1014.8	1129.8
57.5°	1856.9	1595.3	1328.6	1072.3	889.2	779.3	727.1	706.1	742.7	784.5	920.6
60°	1501.1	1292.0	1067.0	842.1	690.5	591.0	549.2	543.9	554.4	606.8	700.8
62.5°	1176.9	1004.3	826.4	643.4	517.8	476.0	423.6	418.5	428.9	460.2	533.6
65°	847.4	737.6	601.5	470.7	371.4	313.8	293.0	298.2	308.6	329.6	397.5
67.5°	591.0	512.6	418.5	329.6	256.4	230.1	209.3	204.0	209.3	245.9	282.5
70°	397.5	350.4	282.5	251.1	177.9	141.2	146.4	130.8	151.7	151.7	183.0
72.5°	261.5	230.1	188.3	146.4	125.6	99.4	99.4	94.2	104.6	109.8	136.0
75°	136.0	104.6	104.6	73.2	52.3	26.1	47.1	41.9	36.6	41.9	52.3
77.5°	94.2	78.5	73.2	57.6	52.3	41.9	41.9	41.9	41.9	47.1	52.3
80°	57.6	57.6	41.9	36.6	31.4	26.1	31.4	31.4	31.4	31.4	36.6
82.5°	36.6	31.4	31.4	26.1	26.1	20.9	20.9	20.9	20.9	20.9	31.4
85°	31.4	20.9	20.9	15.7	20.9	36.6	15.7	20.9	20.9	20.9	15.7
87.5°	10.5	15.7	15.7	15.7	10.5	5.2	10.5	15.7	15.7	26.1	20.9
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°	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6	9744.6
2.5°	9760.3	9765.6	9765.6	9760.3	9760.3	9749.9	9770.7	9755.1	9760.3	9781.2	9765.6
5°	9770.7	9776.0	9776.0	9770.7	9770.7	9770.7	9776.0	9776.0	9770.7	9765.6	9776.0
7.5°	9791.7	9786.5	9786.5	9776.0	9776.0	9765.6	9776.0	9760.3	9770.7	9760.3	9776.0
10°	9765.6	9770.7	9765.6	9760.3	9760.3	9755.1	9755.1	9739.4	9744.6	9728.9	9739.4
12.5°	9749.9	9744.6	9744.6	9734.1	9723.7	9713.3	9708.0	9692.3	9692.3	9655.7	9671.4
15°	9708.0	9713.3	9697.5	9676.6	9666.2	9640.0	9629.5	9608.6	9587.7	9561.6	9566.8
17.5°	9671.4	9655.7	9634.8	9613.8	9572.0	9551.1	9530.1	9498.8	9488.3	9456.9	9446.5
20°	9561.6	9551.1	9525.0	9488.3	9462.1	9415.0	9394.2	9362.8	9336.6	9305.2	9289.5
22.5°	9420.3	9409.8	9378.4	9341.8	9300.0	9279.1	9258.1	9200.7	9174.4	9143.1	9137.8
25°	9242.5	9226.8	9195.4	9153.6	9132.6	9075.1	9054.1	9012.3	9001.9	8970.4	8965.3
27.5°	8970.4	8949.6	8913.0	8860.6	8824.0	8787.4	8766.5	8735.1	8724.7	8693.2	8688.1
30°	8562.5	8536.3	8463.1	8442.2	8379.4	8342.8	8342.8	8300.9	8306.2	8285.3	8285.3
32.5°	7919.2	7877.3	7819.7	7777.9	7736.0	7715.2	7715.2	7699.4	7709.9	7709.9	7720.4
35°	7066.5	7009.1	6977.6	6951.5	6951.5	6972.3	7035.2	7050.9	7082.3	7108.4	7129.4
37.5°	5973.3	5968.2	6004.8	6036.1	6114.6	6203.5	6313.3	6407.5	6496.4	6559.2	6621.9
40°	4791.2	4922.0	5026.6	5173.1	5293.3	5466.0	5664.7	5826.9	5978.5	6088.5	6203.5
42.5°	3739.8	3907.2	4127.0	4341.4	4555.9	4791.2	5052.8	5277.7	5476.5	5628.1	5748.4
45°	2913.4	3143.6	3410.4	3682.4	3959.6	4252.5	4524.5	4754.6	4963.9	5120.8	5241.1
47.5°	2348.5	2599.6	2902.9	3201.1	3515.0	3823.5	4127.0	4325.7	4498.3	4623.8	4733.8
50°	1940.5	2207.3	2526.4	2866.3	3180.2	3488.9	3750.3	3943.8	4085.1	4194.9	4262.9
52.5°	1621.4	1903.9	2244.0	2583.9	2897.7	3180.2	3415.6	3562.1	3677.1	3755.6	3818.3
55°	1339.0	1611.1	1930.1	2249.2	2557.8	2824.5	3018.0	3127.9	3216.8	3263.9	3300.5
57.5°	1093.2	1344.2	1637.2	1930.1	2196.9	2416.6	2568.3	2678.1	2719.9	2756.5	2751.3
60°	857.9	1093.2	1360.0	1611.1	1841.2	2019.0	2128.9	2191.6	2223.0	2238.7	2228.2
62.5°	674.7	889.2	1093.2	1312.9	1480.3	1631.9	1736.6	1736.6	1752.2	1757.5	1773.2
65°	502.1	664.2	842.1	1004.3	1140.2	1239.7	1297.2	1312.9	1333.9	1328.6	1318.1
67.5°	371.4	491.7	622.4	742.7	836.9	899.6	941.5	978.2	972.9	962.4	957.2
70°	256.4	334.8	449.9	523.1	591.0	653.9	664.2	669.5	674.7	680.0	669.5
72.5°	177.9	235.4	298.2	360.9	402.8	428.9	455.1	460.2	460.2	460.2	455.1
75°	88.9	120.3	177.9	204.0	240.6	251.1	272.0	272.0	287.7	266.7	261.5
77.5°	78.5	94.2	125.6	146.4	162.2	177.9	183.0	198.8	193.5	183.0	188.3
80°	47.1	57.6	78.5	88.9	109.8	115.1	120.3	125.6	120.3	125.6	125.6
82.5°	36.6	41.9	52.3	52.3	68.0	68.0	73.2	73.2	78.5	78.5	78.5
85°	20.9	36.6	31.4	62.7	41.9	41.9	52.3	62.7	52.3	52.3	62.7
87.5°	20.9	20.9	15.7	20.9	20.9	20.9	26.1	31.4	31.4	36.6	31.4
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: P249116

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9744.6	9744.6	9744.6	9744.6
2.5°	9760.3	9770.7	9755.1	9749.9
5°	9776.0	9776.0	9765.6	9765.6
7.5°	9776.0	9776.0	9760.3	9749.9
10°	9734.1	9734.1	9718.5	9708.0
12.5°	9655.7	9655.7	9650.4	9634.8
15°	9556.3	9556.3	9535.4	9519.7
17.5°	9420.3	9430.8	9404.7	9404.7
20°	9273.9	9268.6	9247.8	9237.3
22.5°	9122.2	9111.7	9106.5	9075.1
25°	8960.1	8949.6	8933.8	8918.2
27.5°	8682.8	8677.6	8661.9	8641.0
30°	8259.1	8253.8	8233.0	8233.0
32.5°	7709.9	7704.7	7683.8	7689.0
35°	7139.7	7160.7	7150.2	7129.4
37.5°	6663.8	6679.5	6690.0	6679.5
40°	6266.2	6313.3	6318.6	6329.1
42.5°	5842.6	5905.3	5926.3	5936.7
45°	5335.2	5392.8	5439.8	5429.4
47.5°	4817.3	4859.2	4901.0	4869.7
50°	4320.5	4346.6	4362.3	4362.3
52.5°	3849.8	3849.8	3844.5	3849.8
55°	3311.0	3311.0	3290.1	3300.5
57.5°	2746.0	2756.5	2740.8	2714.7
60°	2223.0	2196.9	2186.4	2170.7
62.5°	1731.4	1731.4	1694.8	1741.7
65°	1297.2	1281.5	1265.8	1260.5
67.5°	941.5	936.3	920.6	915.3
70°	664.2	643.4	638.1	627.6
72.5°	444.6	444.6	434.1	434.1
75°	272.0	245.9	240.6	245.9
77.5°	188.3	183.0	183.0	177.9
80°	125.6	120.3	130.8	115.1
82.5°	78.5	83.7	78.5	83.7
85°	52.3	62.7	57.6	57.6
87.5°	31.4	31.4	31.4	31.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)