

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: P249405

Luminaire Tested: **LD8B200D010 ER8B200930 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249405  
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 ER8B200930 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: 17689.4 lumens  
Efficiency: N/A  
Efficacy: 79.2 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

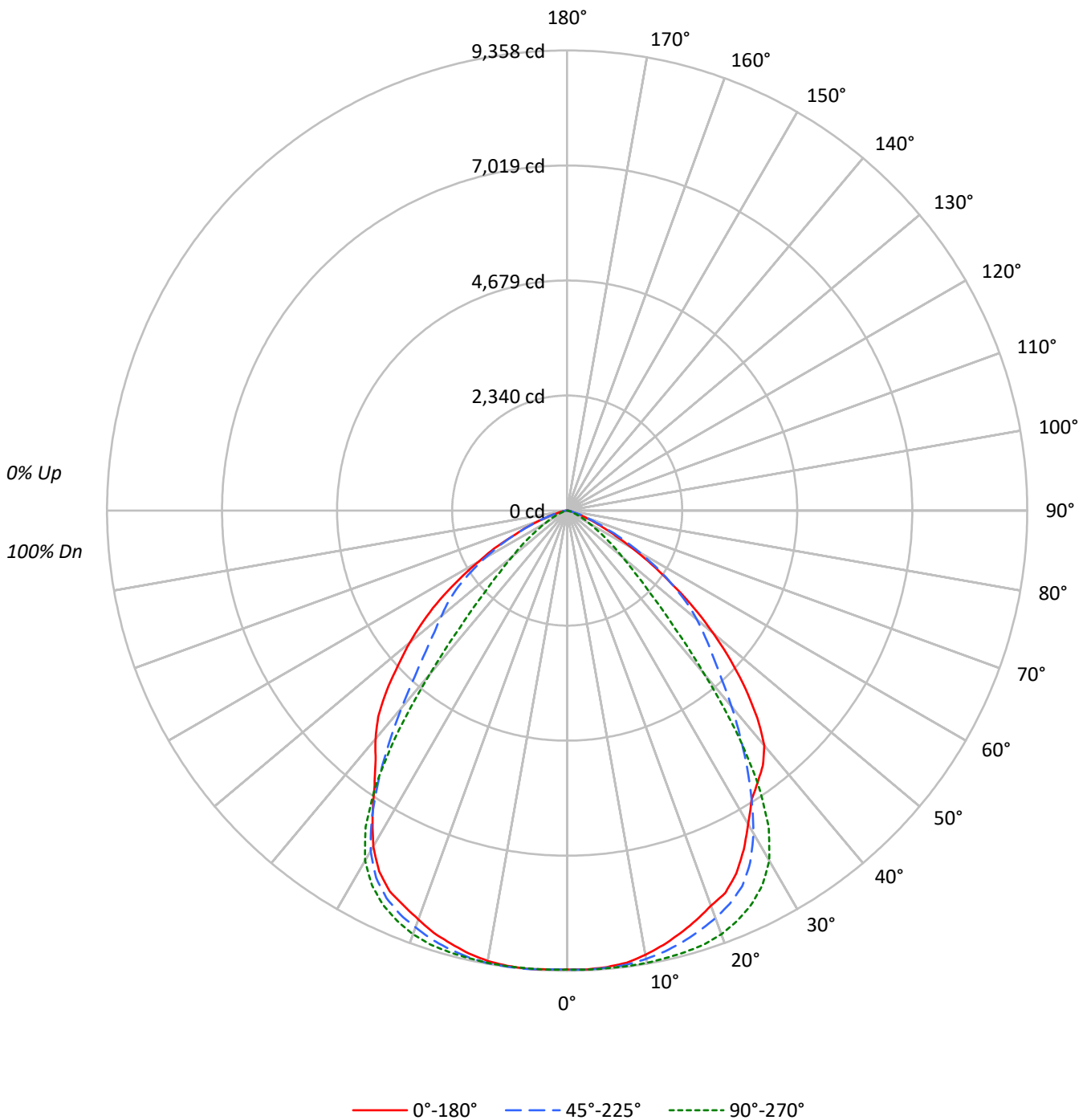
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	890.7	5.0
10°-20°	2586.8	14.6
20°-30°	3926.3	22.2
30°-40°	4123.8	23.3
40°-50°	3091.7	17.5
50°-60°	1983.7	11.2
60°-70°	848.6	4.8
70°-80°	200.5	1.1
80°-90°	37.3	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°	7403.8	41.9
0°-40°	11527.6	65.2
0°-60°	16603.0	93.9
0°-90°	17689.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17689.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9333	9333	9333	9333	9333	
5°	9318	9333	9343	9358	9353	885
15°	8897	9083	9293	9233	9118	2510
25°	8141	8427	8852	8692	8542	3719
35°	6753	6378	6758	6678	6828	4238
45°	5130	4193	2410	4073	5200	3929
55°	2595	2595	897	2705	3161	2354
65°	782	922	286	1187	1207	834
75°	120	140	40	240	236	175
85°	40	25	20	40	55	42
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°	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2
2.5°	9338.3	9348.4	9343.3	9343.3	9338.3	9343.3	9343.3	9353.4	9353.4	9343.3	9338.3
5°	9318.2	9328.3	9328.3	9318.2	9318.2	9343.3	9328.3	9338.3	9338.3	9333.2	9333.2
7.5°	9273.2	9273.2	9293.2	9278.2	9278.2	9293.2	9288.2	9298.2	9308.2	9313.3	9313.3
10°	9172.9	9183.0	9188.1	9188.1	9193.0	9208.0	9218.0	9238.2	9248.0	9258.1	9263.2
12.5°	9047.8	9062.7	9067.8	9062.7	9077.9	9097.8	9122.9	9147.9	9162.9	9183.0	9198.0
15°	8897.4	8897.4	8907.5	8922.5	8932.6	8962.6	8987.6	9017.7	9057.7	9082.8	9107.8
17.5°	8732.1	8742.1	8757.1	8757.1	8777.2	8827.2	8842.3	8887.4	8932.6	8957.6	9007.7
20°	8551.8	8561.7	8576.8	8586.9	8611.9	8652.0	8682.0	8722.1	8772.2	8817.3	8867.3
22.5°	8411.4	8391.5	8401.4	8411.4	8436.5	8471.6	8506.7	8556.7	8606.8	8652.0	8702.1
25°	8140.9	8146.0	8161.0	8171.0	8201.1	8231.2	8271.2	8331.3	8376.3	8426.6	8481.6
27.5°	7775.3	7780.3	7805.3	7805.3	7830.3	7880.4	7905.4	7955.5	8015.7	8065.8	8130.9
30°	7359.5	7369.3	7369.3	7389.5	7404.4	7429.5	7454.5	7504.8	7534.7	7579.9	7670.1
32.5°	6978.7	6988.7	6983.6	6978.7	6963.7	6958.6	6953.6	6963.7	6973.6	6988.7	7023.7
35°	6753.2	6728.1	6708.2	6673.1	6633.1	6582.8	6537.8	6477.7	6422.5	6377.5	6327.5
37.5°	6537.8	6532.7	6502.7	6452.6	6372.4	6282.3	6177.2	6046.9	5916.5	5776.3	5641.1
40°	6237.2	6222.1	6197.1	6127.0	6036.8	5926.6	5786.4	5626.1	5415.6	5200.2	4979.8
42.5°	5726.2	5731.2	5701.2	5646.0	5560.9	5455.7	5310.4	5135.1	4909.6	4654.1	4368.5
45°	5130.0	5130.0	5120.1	5074.9	5014.8	4929.6	4819.4	4674.1	4453.7	4193.2	3887.5
47.5°	4508.8	4513.8	4498.8	4488.8	4463.7	4408.7	4328.5	4218.3	4063.0	3812.4	3506.8
50°	3877.7	3877.7	3902.6	3897.6	3897.6	3877.7	3842.6	3777.3	3642.1	3441.7	3156.3
52.5°	3246.3	3256.4	3271.4	3291.5	3316.5	3356.5	3316.5	3286.4	3201.2	3045.9	2800.5
55°	2595.1	2605.1	2630.1	2665.2	2695.3	2735.5	2745.3	2745.3	2700.3	2595.1	2409.7
57.5°	2039.0	2024.0	2044.0	2074.1	2114.2	2154.2	2184.3	2219.4	2214.3	2144.2	1993.9
60°	1533.0	1538.0	1553.0	1583.2	1613.2	1648.2	1688.3	1718.4	1733.4	1698.3	1603.1
62.5°	1117.2	1117.2	1137.1	1167.2	1182.3	1232.4	1257.4	1272.6	1287.5	1282.4	1222.3
65°	781.6	791.5	801.5	816.6	831.6	861.6	876.7	906.8	916.8	921.8	876.7
67.5°	551.1	536.1	546.2	556.0	571.1	591.2	621.3	621.3	636.2	636.2	606.1
70°	350.8	350.8	355.7	370.7	380.7	385.7	395.8	405.8	420.8	415.8	415.8
72.5°	235.5	230.5	235.5	240.5	245.5	260.5	260.5	265.6	275.5	280.6	260.5
75°	120.3	125.3	135.2	130.3	145.3	135.2	140.2	155.3	150.3	140.2	140.2
77.5°	100.1	100.1	100.1	95.3	105.1	105.1	100.1	110.2	105.1	105.1	100.1
80°	70.1	75.1	70.1	65.1	70.1	65.1	65.1	65.1	65.1	65.1	60.1
82.5°	55.2	45.1	50.1	45.1	50.1	50.1	45.1	40.1	40.1	45.1	40.1
85°	40.1	30.0	35.1	35.1	30.0	30.0	30.0	30.0	30.0	25.0	25.0
87.5°	25.0	15.0	15.0	15.0	20.0	20.0	20.0	15.0	20.0	20.0	10.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2
2.5°	9348.4	9343.3	9353.4	9348.4	9348.4	9343.3	9348.4	9343.3	9353.4	9333.2	9338.3
5°	9348.4	9338.3	9343.3	9348.4	9353.4	9343.3	9343.3	9343.3	9353.4	9343.3	9348.4
7.5°	9328.3	9323.2	9338.3	9348.4	9343.3	9338.3	9348.4	9343.3	9353.4	9348.4	9358.2
10°	9288.2	9293.2	9303.2	9318.2	9323.2	9328.3	9338.3	9338.3	9353.4	9333.2	9343.3
12.5°	9228.1	9248.0	9273.2	9283.1	9303.2	9303.2	9313.3	9318.2	9328.3	9323.2	9338.3
15°	9153.0	9178.0	9208.0	9233.1	9258.1	9273.2	9288.2	9293.2	9308.2	9293.2	9298.2
17.5°	9062.7	9092.8	9137.8	9167.9	9208.0	9223.0	9243.1	9253.1	9268.2	9258.1	9263.2
20°	8937.4	8972.6	9022.6	9067.8	9092.8	9127.9	9153.0	9167.9	9178.0	9167.9	9172.9
22.5°	8762.2	8812.3	8877.4	8912.4	8962.6	8992.7	8997.6	9032.7	9057.7	9032.7	9042.8
25°	8556.7	8606.8	8657.0	8732.1	8777.2	8812.3	8847.4	8852.4	8877.4	8872.4	8867.3
27.5°	8216.0	8281.3	8366.4	8426.6	8486.6	8541.8	8581.8	8591.8	8616.9	8606.8	8611.9
30°	7750.1	7820.3	7900.5	7995.6	8080.8	8135.9	8186.0	8221.1	8246.1	8231.2	8226.1
32.5°	7088.9	7159.0	7244.2	7339.3	7439.6	7519.7	7579.9	7624.9	7655.0	7645.0	7619.9
35°	6332.4	6352.5	6407.6	6482.7	6567.8	6653.0	6708.2	6758.2	6793.3	6803.3	6803.3
37.5°	5555.9	5490.8	5450.8	5450.8	5500.7	5535.8	5585.9	5616.0	5671.1	5691.1	5706.2
40°	4804.4	4654.1	4513.8	4408.7	4338.5	4333.6	4333.6	4348.5	4398.6	4463.7	4523.9
42.5°	4133.1	3892.6	3677.2	3481.8	3341.6	3261.4	3226.4	3231.4	3271.4	3331.5	3431.7
45°	3597.1	3296.5	3025.9	2790.5	2600.0	2474.8	2414.7	2409.7	2439.7	2509.9	2620.2
47.5°	3181.3	2860.6	2555.0	2284.5	2079.1	1943.8	1873.6	1853.7	1873.6	1938.8	2069.0
50°	2835.6	2505.0	2189.3	1908.7	1688.3	1548.1	1482.9	1457.9	1482.9	1538.0	1668.3
52.5°	2514.9	2174.3	1878.7	1608.2	1372.7	1252.4	1182.3	1167.2	1182.3	1247.4	1352.7
55°	2144.2	1853.7	1563.0	1292.5	1087.1	967.0	911.7	896.8	911.7	971.9	1082.1
57.5°	1778.6	1528.0	1272.6	1026.9	851.7	746.4	696.4	676.3	711.4	751.4	881.8
60°	1437.8	1237.5	1022.0	806.6	661.3	566.1	526.0	520.9	531.0	581.1	671.3
62.5°	1127.3	961.9	791.5	616.2	495.9	455.9	405.8	400.9	410.7	440.8	511.1
65°	811.6	706.5	576.1	450.9	355.7	300.5	280.6	285.6	295.5	315.7	380.7
67.5°	566.1	490.9	400.9	315.7	245.5	220.4	200.4	195.4	200.4	235.5	270.5
70°	380.7	335.6	270.5	240.5	170.4	135.2	140.2	125.3	145.3	145.3	175.3
72.5°	250.4	220.4	180.4	140.2	120.3	95.3	95.3	90.2	100.1	105.1	130.3
75°	130.3	100.1	100.1	70.1	50.1	25.0	45.1	40.1	35.1	40.1	50.1
77.5°	90.2	75.1	70.1	55.2	50.1	40.1	40.1	40.1	40.1	45.1	50.1
80°	55.2	55.2	40.1	35.1	30.0	25.0	30.0	30.0	30.0	30.0	35.1
82.5°	35.1	30.0	30.0	25.0	25.0	20.0	20.0	20.0	20.0	20.0	30.0
85°	30.0	20.0	20.0	15.0	20.0	35.1	15.0	20.0	20.0	20.0	15.0
87.5°	10.1	15.0	15.0	15.0	10.1	5.0	10.1	15.0	15.0	25.0	20.0
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°	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2	9333.2
2.5°	9348.4	9353.4	9353.4	9348.4	9348.4	9338.3	9358.2	9343.3	9348.4	9368.3	9353.4
5°	9358.2	9363.3	9363.3	9358.2	9358.2	9358.2	9363.3	9363.3	9358.2	9353.4	9363.3
7.5°	9378.4	9373.4	9373.4	9363.3	9363.3	9353.4	9363.3	9348.4	9358.2	9348.4	9363.3
10°	9353.4	9358.2	9353.4	9348.4	9348.4	9343.3	9343.3	9328.3	9333.2	9318.2	9328.3
12.5°	9338.3	9333.2	9333.2	9323.2	9313.3	9303.2	9298.2	9283.1	9283.1	9248.0	9263.2
15°	9298.2	9303.2	9288.2	9268.2	9258.1	9233.1	9223.0	9203.0	9183.0	9158.0	9162.9
17.5°	9263.2	9248.0	9228.1	9208.0	9167.9	9147.9	9127.9	9097.8	9087.7	9057.7	9047.8
20°	9158.0	9147.9	9122.9	9087.7	9062.7	9017.7	8997.6	8967.6	8942.4	8912.4	8897.4
22.5°	9022.6	9012.6	8982.6	8947.5	8907.5	8887.4	8867.3	8812.3	8787.2	8757.1	8752.1
25°	8852.4	8837.3	8807.2	8767.2	8747.1	8692.0	8671.9	8631.8	8621.9	8591.8	8586.9
27.5°	8591.8	8571.8	8536.8	8486.6	8451.6	8416.5	8396.5	8366.4	8356.4	8326.2	8321.3
30°	8201.1	8176.0	8105.8	8085.9	8025.7	7990.6	7990.6	7950.6	7955.5	7935.6	7935.6
32.5°	7584.9	7544.8	7489.6	7449.6	7409.5	7389.5	7389.5	7374.4	7384.5	7384.5	7394.5
35°	6768.3	6713.2	6683.1	6658.1	6658.1	6678.0	6738.2	6753.2	6783.3	6808.3	6828.5
37.5°	5721.1	5716.2	5751.3	5781.3	5856.4	5941.6	6046.9	6137.0	6222.1	6282.3	6342.4
40°	4588.9	4714.3	4814.4	4954.7	5069.8	5235.2	5425.6	5580.9	5726.2	5831.4	5941.6
42.5°	3581.9	3742.3	3952.8	4158.1	4363.5	4588.9	4839.6	5054.9	5245.3	5390.6	5505.8
45°	2790.5	3010.9	3266.5	3526.9	3792.5	4073.0	4333.6	4554.0	4754.4	4904.6	5019.8
47.5°	2249.4	2489.9	2780.4	3066.0	3366.6	3662.1	3952.8	4143.1	4308.3	4428.6	4533.9
50°	1858.6	2114.2	2419.8	2745.3	3045.9	3341.6	3592.0	3777.3	3912.7	4017.9	4082.9
52.5°	1553.0	1823.5	2149.2	2474.8	2775.4	3045.9	3271.4	3411.7	3521.8	3597.1	3657.2
55°	1282.4	1543.1	1848.6	2154.2	2449.8	2705.3	2890.6	2995.9	3081.0	3126.1	3161.1
57.5°	1047.1	1287.5	1568.1	1848.6	2104.1	2314.6	2459.8	2565.1	2605.1	2640.2	2635.1
60°	821.7	1047.1	1302.6	1543.1	1763.4	1933.7	2039.0	2099.1	2129.1	2144.2	2134.2
62.5°	646.3	851.7	1047.1	1257.4	1417.7	1563.0	1663.3	1663.3	1678.2	1683.3	1698.3
65°	480.9	636.2	806.6	961.9	1092.1	1187.4	1242.5	1257.4	1277.5	1272.6	1262.5
67.5°	355.7	470.9	596.1	711.4	801.5	861.6	901.7	936.9	931.9	921.8	916.8
70°	245.5	320.7	430.9	501.0	566.1	626.3	636.2	641.2	646.3	651.3	641.2
72.5°	170.4	225.4	285.6	345.7	385.7	410.7	435.8	440.8	440.8	440.8	435.8
75°	85.2	115.2	170.4	195.4	230.5	240.5	260.5	260.5	275.5	255.5	250.4
77.5°	75.1	90.2	120.3	140.2	155.3	170.4	175.3	190.3	185.3	175.3	180.4
80°	45.1	55.2	75.1	85.2	105.1	110.2	115.2	120.3	115.2	120.3	120.3
82.5°	35.1	40.1	50.1	50.1	65.1	65.1	70.1	70.1	75.1	75.1	75.1
85°	20.0	35.1	30.0	60.1	40.1	40.1	50.1	60.1	50.1	50.1	60.1
87.5°	20.0	20.0	15.0	20.0	20.0	20.0	25.0	30.0	30.0	35.1	30.0
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: P249405

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	9333.2	9333.2	9333.2	9333.2
2.5°	9348.4	9358.2	9343.3	9338.3
5°	9363.3	9363.3	9353.4	9353.4
7.5°	9363.3	9363.3	9348.4	9338.3
10°	9323.2	9323.2	9308.2	9298.2
12.5°	9248.0	9248.0	9243.1	9228.1
15°	9153.0	9153.0	9132.9	9117.9
17.5°	9022.6	9032.7	9007.7	9007.7
20°	8882.4	8877.4	8857.4	8847.4
22.5°	8737.2	8727.1	8722.1	8692.0
25°	8581.8	8571.8	8556.7	8541.8
27.5°	8316.4	8311.3	8296.2	8276.2
30°	7910.4	7905.4	7885.5	7885.5
32.5°	7384.5	7379.4	7359.5	7364.5
35°	6838.3	6858.5	6848.4	6828.5
37.5°	6382.5	6397.5	6407.6	6397.5
40°	6001.7	6046.9	6051.8	6061.9
42.5°	5596.0	5656.0	5676.2	5686.0
45°	5110.0	5165.1	5210.2	5200.2
47.5°	4614.0	4654.1	4694.2	4664.1
50°	4138.2	4163.2	4178.2	4178.2
52.5°	3687.3	3687.3	3682.3	3687.3
55°	3171.2	3171.2	3151.2	3161.1
57.5°	2630.1	2640.2	2625.0	2600.0
60°	2129.1	2104.1	2094.0	2079.1
62.5°	1658.3	1658.3	1623.2	1668.3
65°	1242.5	1227.4	1212.4	1207.3
67.5°	901.7	896.8	881.8	876.7
70°	636.2	616.2	611.2	601.2
72.5°	425.9	425.9	415.8	415.8
75°	260.5	235.5	230.5	235.5
77.5°	180.4	175.3	175.3	170.4
80°	120.3	115.2	125.3	110.2
82.5°	75.1	80.2	75.1	80.2
85°	50.1	60.1	55.2	55.2
87.5°	30.0	30.0	30.0	30.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)