

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 ER8B2009730 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 ER8B2009730 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: 15780.0 lumens  
Efficiency: N/A  
Efficacy: 70.7 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

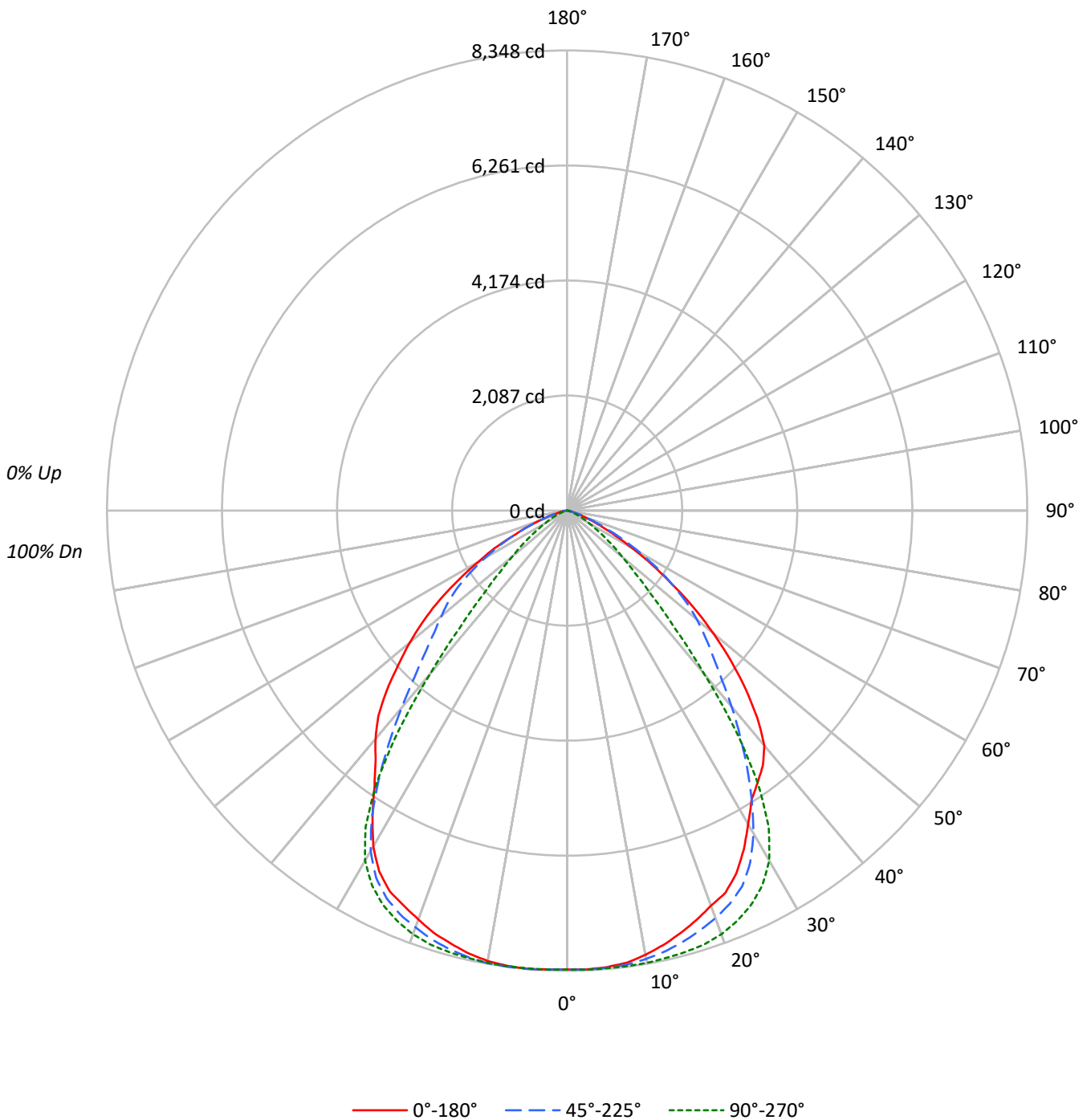
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	794.6	5.0
10°-20°	2307.6	14.6
20°-30°	3502.5	22.2
30°-40°	3678.6	23.3
40°-50°	2758.0	17.5
50°-60°	1769.6	11.2
60°-70°	757.0	4.8
70°-80°	178.8	1.1
80°-90°	33.3	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°	6604.6	41.9
0°-40°	10283.3	65.2
0°-60°	14810.9	93.9
0°-90°	15780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15780.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8326	8326	8326	8326	8326	
5°	8312	8326	8335	8348	8344	790
15°	7937	8102	8290	8236	8134	2239
25°	7262	7517	7897	7754	7620	3318
35°	6024	5689	6029	5957	6091	3781
45°	4576	3741	2150	3633	4639	3505
55°	2315	2315	800	2413	2820	2100
65°	697	822	255	1059	1077	744
75°	107	125	36	214	210	156
85°	36	22	18	36	49	38
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°	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8
2.5°	8330.3	8339.3	8334.8	8334.8	8330.3	8334.8	8334.8	8343.8	8343.8	8334.8	8330.3
5°	8312.4	8321.4	8321.4	8312.4	8312.4	8334.8	8321.4	8330.3	8330.3	8325.8	8325.8
7.5°	8272.3	8272.3	8290.1	8276.7	8276.7	8290.1	8285.6	8294.6	8303.5	8308.0	8308.0
10°	8182.8	8191.8	8196.3	8196.3	8200.7	8214.1	8223.0	8241.0	8249.8	8258.8	8263.3
12.5°	8071.2	8084.5	8089.0	8084.5	8098.0	8115.8	8138.2	8160.5	8173.9	8191.8	8205.2
15°	7937.0	7937.0	7946.0	7959.4	7968.4	7995.2	8017.5	8044.3	8080.0	8102.4	8124.7
17.5°	7789.6	7798.5	7811.9	7811.9	7829.8	7874.4	7887.9	7928.1	7968.4	7990.7	8035.4
20°	7628.7	7637.6	7651.0	7660.0	7682.3	7718.1	7744.9	7780.6	7825.3	7865.6	7910.2
22.5°	7503.5	7485.7	7494.6	7503.5	7525.9	7557.2	7588.5	7633.1	7677.8	7718.1	7762.8
25°	7262.2	7266.7	7280.1	7289.0	7315.9	7342.7	7378.4	7432.0	7472.2	7517.0	7566.1
27.5°	6936.0	6940.5	6962.8	6962.8	6985.1	7029.8	7052.1	7096.8	7150.5	7195.2	7253.3
30°	6565.1	6573.9	6573.9	6591.9	6605.2	6627.6	6649.9	6694.7	6721.4	6761.7	6842.2
32.5°	6225.4	6234.3	6229.8	6225.4	6212.0	6207.5	6203.0	6212.0	6220.9	6234.3	6265.6
35°	6024.3	6001.9	5984.1	5952.8	5917.1	5872.3	5832.1	5778.5	5729.3	5689.1	5644.5
37.5°	5832.1	5827.6	5800.8	5756.1	5684.6	5604.2	5510.4	5394.2	5277.9	5152.8	5032.2
40°	5564.0	5550.5	5528.2	5465.7	5385.2	5286.9	5161.8	5018.8	4831.0	4638.9	4442.3
42.5°	5108.1	5112.6	5085.8	5036.6	4960.7	4866.8	4737.2	4580.8	4379.7	4151.7	3897.0
45°	4576.3	4576.3	4567.4	4527.1	4473.5	4397.5	4299.2	4169.6	3973.0	3740.6	3467.9
47.5°	4022.1	4026.6	4013.2	4004.3	3981.9	3932.8	3861.3	3763.0	3624.4	3400.9	3128.3
50°	3459.1	3459.1	3481.4	3476.9	3476.9	3459.1	3427.8	3369.6	3249.0	3070.2	2815.6
52.5°	2895.9	2904.9	2918.3	2936.2	2958.5	2994.2	2958.5	2931.7	2855.7	2717.1	2498.2
55°	2315.0	2323.9	2346.2	2377.5	2404.4	2440.2	2449.0	2449.0	2408.8	2315.0	2149.6
57.5°	1818.9	1805.5	1823.4	1850.2	1886.0	1921.7	1948.5	1979.8	1975.3	1912.8	1778.7
60°	1367.5	1372.0	1385.4	1412.3	1439.1	1470.3	1506.1	1532.9	1546.3	1515.0	1430.1
62.5°	996.6	996.6	1014.4	1041.2	1054.7	1099.4	1121.7	1135.2	1148.5	1144.0	1090.4
65°	697.2	706.1	715.0	728.5	741.8	768.6	782.1	808.9	817.8	822.3	782.1
67.5°	491.6	478.2	487.2	496.0	509.5	527.4	554.2	554.2	567.5	567.5	540.7
70°	312.9	312.9	317.3	330.7	339.6	344.1	353.1	362.0	375.4	370.9	370.9
72.5°	210.1	205.6	210.1	214.5	219.0	232.4	232.4	236.9	245.8	250.3	232.4
75°	107.3	111.8	120.6	116.2	129.6	120.6	125.1	138.5	134.1	125.1	125.1
77.5°	89.3	89.3	89.3	85.0	93.8	93.8	89.3	98.3	93.8	93.8	89.3
80°	62.5	67.0	62.5	58.1	62.5	58.1	58.1	58.1	58.1	58.1	53.6
82.5°	49.2	40.2	44.7	40.2	44.7	44.7	40.2	35.8	35.8	40.2	35.8
85°	35.8	26.8	31.3	31.3	26.8	26.8	26.8	26.8	26.8	22.3	22.3
87.5°	22.3	13.4	13.4	13.4	17.8	17.8	17.8	13.4	17.8	17.8	9.0
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°	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8
2.5°	8339.3	8334.8	8343.8	8339.3	8339.3	8334.8	8339.3	8334.8	8343.8	8325.8	8330.3
5°	8339.3	8330.3	8334.8	8339.3	8343.8	8334.8	8334.8	8334.8	8343.8	8334.8	8339.3
7.5°	8321.4	8316.9	8330.3	8339.3	8334.8	8330.3	8339.3	8334.8	8343.8	8339.3	8348.1
10°	8285.6	8290.1	8299.0	8312.4	8316.9	8321.4	8330.3	8330.3	8343.8	8325.8	8334.8
12.5°	8232.0	8249.8	8272.3	8281.1	8299.0	8299.0	8308.0	8312.4	8321.4	8316.9	8330.3
15°	8165.0	8187.3	8214.1	8236.5	8258.8	8272.3	8285.6	8290.1	8303.5	8290.1	8294.6
17.5°	8084.5	8111.3	8151.5	8178.3	8214.1	8227.5	8245.4	8254.3	8267.8	8258.8	8263.3
20°	7972.7	8004.1	8048.7	8089.0	8111.3	8142.6	8165.0	8178.3	8187.3	8178.3	8182.8
22.5°	7816.4	7861.1	7919.2	7950.4	7995.2	8022.0	8026.4	8057.7	8080.0	8057.7	8066.7
25°	7633.1	7677.8	7722.6	7789.6	7829.8	7861.1	7892.4	7896.9	7919.2	7914.7	7910.2
27.5°	7329.2	7387.4	7463.3	7517.0	7570.6	7619.8	7655.5	7664.4	7686.8	7677.8	7682.3
30°	6913.6	6976.2	7047.7	7132.6	7208.6	7257.7	7302.4	7333.7	7356.0	7342.7	7338.2
32.5°	6323.7	6386.3	6462.3	6547.1	6636.6	6708.0	6761.7	6801.9	6828.7	6819.8	6797.4
35°	5648.9	5666.8	5716.0	5783.0	5858.9	5934.9	5984.1	6028.7	6060.0	6069.0	6069.0
37.5°	4956.2	4898.1	4862.4	4862.4	4907.0	4938.3	4983.0	5009.8	5059.0	5076.8	5090.3
40°	4285.8	4151.7	4026.6	3932.8	3870.2	3865.8	3865.8	3879.1	3923.8	3981.9	4035.6
42.5°	3687.0	3472.4	3280.3	3106.0	2980.9	2909.4	2878.1	2882.6	2918.3	2971.9	3061.3
45°	3208.8	2940.7	2699.3	2489.3	2319.4	2207.7	2154.1	2149.6	2176.4	2239.0	2337.4
47.5°	2837.9	2551.8	2279.2	2037.9	1854.7	1734.0	1671.4	1653.6	1671.4	1729.5	1845.7
50°	2529.5	2234.6	1953.0	1702.7	1506.1	1381.0	1322.8	1300.5	1322.8	1372.0	1488.2
52.5°	2243.4	1939.6	1675.9	1434.6	1224.5	1117.2	1054.7	1041.2	1054.7	1112.8	1206.7
55°	1912.8	1653.6	1394.3	1153.0	969.8	862.6	813.3	800.0	813.3	867.0	965.3
57.5°	1586.6	1363.1	1135.2	916.1	759.8	665.8	621.2	603.3	634.6	670.3	786.6
60°	1282.6	1103.9	911.7	719.5	589.9	505.0	469.2	464.7	473.7	518.4	598.8
62.5°	1005.6	858.1	706.1	549.7	442.4	406.7	362.0	357.6	366.4	393.2	455.9
65°	724.0	630.2	513.9	402.2	317.3	268.1	250.3	254.8	263.6	281.6	339.6
67.5°	505.0	437.9	357.6	281.6	219.0	196.6	178.8	174.3	178.8	210.1	241.3
70°	339.6	299.4	241.3	214.5	152.0	120.6	125.1	111.8	129.6	129.6	156.4
72.5°	223.4	196.6	160.9	125.1	107.3	85.0	85.0	80.5	89.3	93.8	116.2
75°	116.2	89.3	89.3	62.5	44.7	22.3	40.2	35.8	31.3	35.8	44.7
77.5°	80.5	67.0	62.5	49.2	44.7	35.8	35.8	35.8	35.8	40.2	44.7
80°	49.2	49.2	35.8	31.3	26.8	22.3	26.8	26.8	26.8	26.8	31.3
82.5°	31.3	26.8	26.8	22.3	22.3	17.8	17.8	17.8	17.8	17.8	26.8
85°	26.8	17.8	17.8	13.4	17.8	31.3	13.4	17.8	17.8	17.8	13.4
87.5°	9.0	13.4	13.4	13.4	9.0	4.5	9.0	13.4	13.4	22.3	17.8
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°	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8	8325.8
2.5°	8339.3	8343.8	8343.8	8339.3	8339.3	8330.3	8348.1	8334.8	8339.3	8357.1	8343.8
5°	8348.1	8352.6	8352.6	8348.1	8348.1	8348.1	8352.6	8352.6	8348.1	8343.8	8352.6
7.5°	8366.1	8361.6	8361.6	8352.6	8352.6	8343.8	8352.6	8339.3	8348.1	8339.3	8352.6
10°	8343.8	8348.1	8343.8	8339.3	8339.3	8334.8	8334.8	8321.4	8325.8	8312.4	8321.4
12.5°	8330.3	8325.8	8325.8	8316.9	8308.0	8299.0	8294.6	8281.1	8281.1	8249.8	8263.3
15°	8294.6	8299.0	8285.6	8267.8	8258.8	8236.5	8227.5	8209.6	8191.8	8169.5	8173.9
17.5°	8263.3	8249.8	8232.0	8214.1	8178.3	8160.5	8142.6	8115.8	8106.8	8080.0	8071.2
20°	8169.5	8160.5	8138.2	8106.8	8084.5	8044.3	8026.4	7999.6	7977.2	7950.4	7937.0
22.5°	8048.7	8039.8	8013.0	7981.7	7946.0	7928.1	7910.2	7861.1	7838.7	7811.9	7807.4
25°	7896.9	7883.4	7856.6	7820.9	7802.9	7753.8	7735.9	7700.1	7691.3	7664.4	7660.0
27.5°	7664.4	7646.6	7615.3	7570.6	7539.3	7508.0	7490.2	7463.3	7454.4	7427.5	7423.1
30°	7315.9	7293.5	7230.9	7213.1	7159.4	7128.1	7128.1	7092.4	7096.8	7079.0	7079.0
32.5°	6766.2	6730.4	6681.2	6645.5	6609.7	6591.9	6591.9	6578.4	6587.4	6587.4	6596.3
35°	6037.7	5988.6	5961.7	5939.4	5939.4	5957.2	6010.9	6024.3	6051.1	6073.4	6091.4
37.5°	5103.6	5099.2	5130.5	5157.3	5224.3	5300.3	5394.2	5474.6	5550.5	5604.2	5657.8
40°	4093.6	4205.4	4294.7	4419.9	4522.6	4670.1	4840.0	4978.5	5108.1	5202.0	5300.3
42.5°	3195.3	3338.4	3526.1	3709.3	3892.5	4093.6	4317.2	4509.3	4679.1	4808.7	4911.5
45°	2489.3	2685.9	2913.9	3146.2	3383.1	3633.4	3865.8	4062.4	4241.2	4375.2	4478.0
47.5°	2006.6	2221.1	2480.3	2735.1	3003.2	3266.8	3526.1	3695.9	3843.3	3950.6	4044.5
50°	1658.0	1886.0	2158.6	2449.0	2717.1	2980.9	3204.3	3369.6	3490.4	3584.2	3642.2
52.5°	1385.4	1626.7	1917.2	2207.7	2475.8	2717.1	2918.3	3043.4	3141.7	3208.8	3262.4
55°	1144.0	1376.5	1649.1	1921.7	2185.4	2413.3	2578.6	2672.5	2748.4	2788.7	2819.9
57.5°	934.1	1148.5	1398.8	1649.1	1877.0	2064.8	2194.3	2288.2	2323.9	2355.2	2350.7
60°	733.0	934.1	1162.0	1376.5	1573.1	1725.0	1818.9	1872.5	1899.3	1912.8	1903.8
62.5°	576.5	759.8	934.1	1121.7	1264.7	1394.3	1483.8	1483.8	1497.1	1501.6	1515.0
65°	429.0	567.5	719.5	858.1	974.2	1059.2	1108.4	1121.7	1139.6	1135.2	1126.2
67.5°	317.3	420.1	531.8	634.6	715.0	768.6	804.4	835.8	831.3	822.3	817.8
70°	219.0	286.1	384.4	446.9	505.0	558.7	567.5	572.0	576.5	581.0	572.0
72.5°	152.0	201.1	254.8	308.4	344.1	366.4	388.8	393.2	393.2	393.2	388.8
75°	76.0	102.8	152.0	174.3	205.6	214.5	232.4	232.4	245.8	227.9	223.4
77.5°	67.0	80.5	107.3	125.1	138.5	152.0	156.4	169.8	165.3	156.4	160.9
80°	40.2	49.2	67.0	76.0	93.8	98.3	102.8	107.3	102.8	107.3	107.3
82.5°	31.3	35.8	44.7	44.7	58.1	58.1	62.5	62.5	67.0	67.0	67.0
85°	17.8	31.3	26.8	53.6	35.8	35.8	44.7	53.6	44.7	44.7	53.6
87.5°	17.8	17.8	13.4	17.8	17.8	17.8	22.3	26.8	26.8	31.3	26.8
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: P249405

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	8325.8	8325.8	8325.8	8325.8
2.5°	8339.3	8348.1	8334.8	8330.3
5°	8352.6	8352.6	8343.8	8343.8
7.5°	8352.6	8352.6	8339.3	8330.3
10°	8316.9	8316.9	8303.5	8294.6
12.5°	8249.8	8249.8	8245.4	8232.0
15°	8165.0	8165.0	8147.1	8133.7
17.5°	8048.7	8057.7	8035.4	8035.4
20°	7923.6	7919.2	7901.3	7892.4
22.5°	7794.1	7785.1	7780.6	7753.8
25°	7655.5	7646.6	7633.1	7619.8
27.5°	7418.7	7414.2	7400.7	7382.9
30°	7056.6	7052.1	7034.3	7034.3
32.5°	6587.4	6582.9	6565.1	6569.6
35°	6100.2	6118.2	6109.2	6091.4
37.5°	5693.6	5707.0	5716.0	5707.0
40°	5353.9	5394.2	5398.6	5407.6
42.5°	4992.0	5045.5	5063.5	5072.3
45°	4558.4	4607.6	4647.8	4638.9
47.5°	4116.0	4151.7	4187.5	4160.7
50°	3691.5	3713.8	3727.2	3727.2
52.5°	3289.3	3289.3	3284.8	3289.3
55°	2828.9	2828.9	2811.1	2819.9
57.5°	2346.2	2355.2	2341.7	2319.4
60°	1899.3	1877.0	1868.0	1854.7
62.5°	1479.3	1479.3	1448.0	1488.2
65°	1108.4	1094.9	1081.5	1077.0
67.5°	804.4	800.0	786.6	782.1
70°	567.5	549.7	545.2	536.3
72.5°	379.9	379.9	370.9	370.9
75°	232.4	210.1	205.6	210.1
77.5°	160.9	156.4	156.4	152.0
80°	107.3	102.8	111.8	98.3
82.5°	67.0	71.5	67.0	71.5
85°	44.7	53.6	49.2	49.2
87.5°	26.8	26.8	26.8	26.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)