

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: P248837

Luminaire Tested: **LD8B175D010 ER8B175940 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175940 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15125.0 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

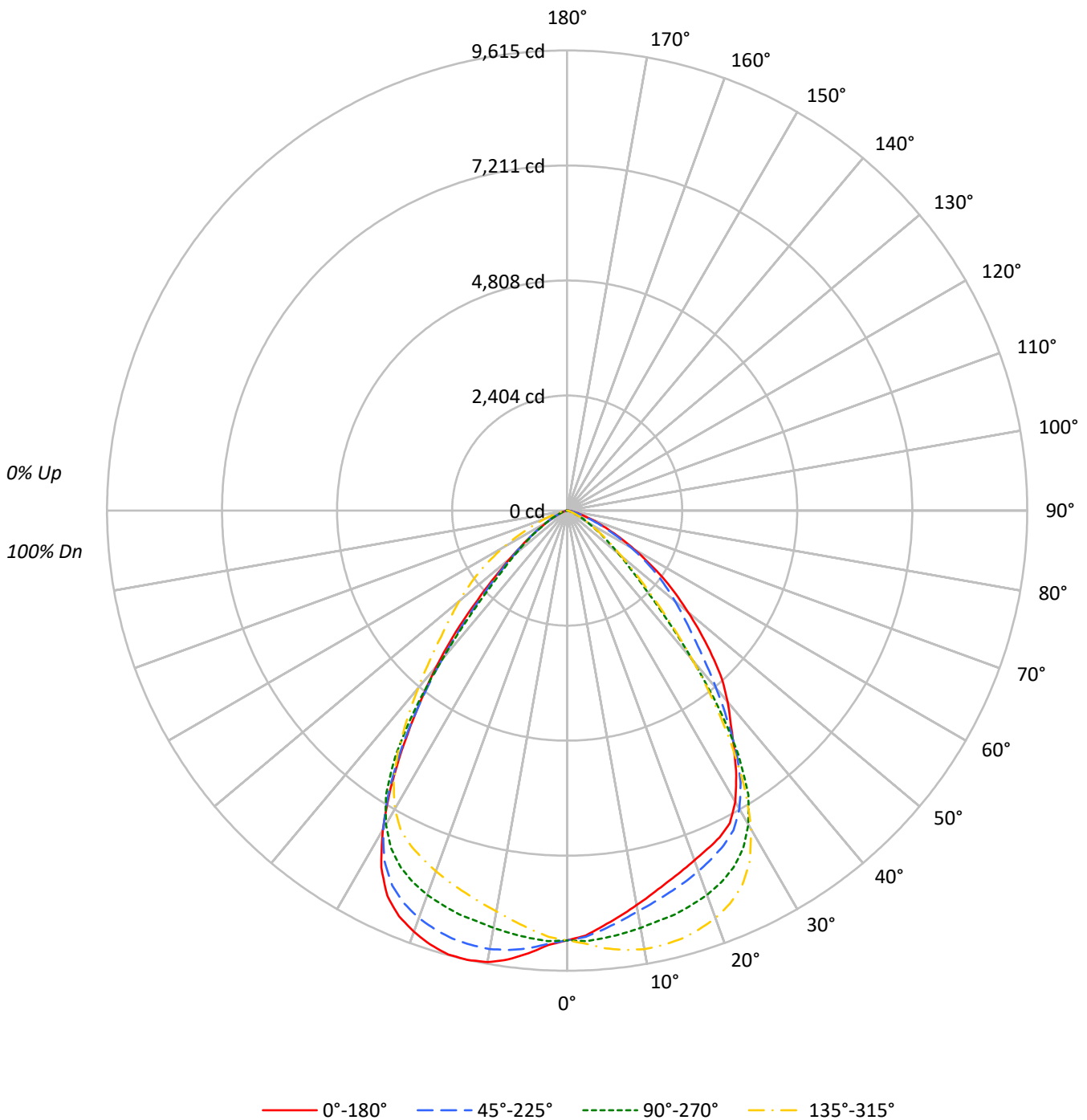
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	276885	276885	276885	276885
5°	269533	277538	287446	277538
10°	262075	277174	299963	277174
15°	256839	278819	306529	278819
20°	255090	280413	307319	280413
25°	256433	279852	302379	279852
30°	250091	269607	274453	269607
35°	228756	235190	223143	235190
40°	210021	163604	170846	163604
45°	186612	99808	115481	99808
50°	157955	66673	74036	66673
55°	130823	45493	48084	45493
60°	99780	30281	30553	30281
65°	70696	18869	17278	18869
70°	50994	12640	11468	12640
75°	32383	6279	5230	6279
80°	22588	4670	3871	4670
85°	20167	0	1521	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	854.7	5.7
10°-20°	2474.9	16.4
20°-30°	3747.6	24.8
30°-40°	3756.0	24.8
40°-50°	2358.6	15.6
50°-60°	1256.9	8.3
60°-70°	516.8	3.4
70°-80°	136.5	0.9
80°-90°	23.1	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°	7077.1	46.8
0°-40°	10833.1	71.6
0°-60°	14448.5	95.5
0°-90°	15125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15125.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	8979	8979	8979	8979	8979	
5°	8708	8966	9286	8966	8708	821
15°	8045	8734	9602	8734	8045	2275
25°	7537	8225	8887	8225	7537	3457
35°	6077	6248	5928	6248	6077	3807
45°	4279	2289	2648	2289	4279	3291
55°	2433	846	894	846	2433	2170
65°	969	259	237	259	969	1005
75°	272	53	44	53	272	308
85°	57	0	4	0	57	63
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°	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2
2.5°	8887.2	8878.4	8874.0	8882.9	8887.2	8904.7	8900.4	8909.0	8909.0	8913.5	8922.2
5°	8707.5	8702.9	8707.5	8707.5	8725.0	8742.5	8738.1	8751.3	8760.0	8782.0	8790.6
7.5°	8540.9	8540.9	8536.4	8553.9	8562.7	8589.1	8584.6	8606.6	8619.7	8641.6	8672.3
10°	8369.8	8369.8	8374.1	8387.3	8391.8	8431.2	8431.2	8461.8	8479.3	8501.4	8540.9
12.5°	8203.2	8203.2	8229.6	8220.7	8238.2	8268.9	8282.1	8312.8	8339.1	8383.0	8422.5
15°	8045.3	8045.3	8054.2	8076.0	8089.2	8128.7	8150.5	8185.7	8216.4	8260.3	8317.3
17.5°	7909.4	7905.1	7909.4	7935.8	7962.1	7997.1	8014.6	8058.5	8089.2	8146.2	8198.9
20°	7773.5	7782.4	7782.4	7804.2	7821.7	7865.6	7883.1	7931.5	7966.5	8019.0	8080.5
22.5°	7655.2	7650.8	7650.8	7681.5	7694.7	7734.0	7751.5	7795.4	7834.9	7878.8	7935.8
25°	7536.8	7527.9	7545.6	7549.9	7558.6	7602.5	7615.6	7646.3	7685.8	7725.4	7782.4
27.5°	7361.4	7352.7	7357.0	7374.5	7387.7	7422.7	7431.6	7462.2	7492.9	7527.9	7576.3
30°	7023.7	7015.0	7010.7	7041.4	7054.6	7080.7	7093.9	7146.6	7155.3	7194.8	7229.8
32.5°	6576.5	6572.2	6581.0	6607.2	6620.4	6655.6	6673.1	6703.7	6725.6	6747.6	6782.6
35°	6076.8	6068.0	6076.8	6103.2	6103.2	6133.8	6147.0	6160.0	6155.7	6160.0	6151.3
37.5°	5612.1	5607.6	5612.1	5625.1	5612.1	5625.1	5612.1	5585.8	5537.6	5484.9	5432.2
40°	5217.4	5221.8	5195.6	5213.1	5164.7	5156.1	5107.9	5042.0	4945.7	4840.4	4691.4
42.5°	4796.6	4783.4	4765.9	4774.6	4735.2	4704.4	4625.5	4542.3	4419.4	4244.2	4064.3
45°	4279.2	4274.9	4266.0	4261.7	4235.3	4204.7	4138.8	4042.4	3906.5	3726.8	3511.9
47.5°	3775.0	3761.8	3761.8	3766.1	3735.5	3731.1	3678.4	3595.2	3476.8	3301.4	3077.8
50°	3292.6	3288.3	3297.1	3314.6	3292.6	3283.9	3248.9	3191.9	3086.7	2937.6	2727.0
52.5°	2858.6	2854.2	2863.1	2884.9	2876.1	2884.9	2849.9	2806.1	2735.9	2591.1	2407.0
55°	2433.4	2433.4	2433.4	2459.6	2459.6	2459.6	2442.1	2415.9	2350.0	2244.8	2073.9
57.5°	1990.5	1994.9	2021.2	2025.5	2021.2	2030.1	2025.5	1999.2	1955.5	1881.0	1749.4
60°	1617.9	1617.9	1631.0	1644.2	1639.7	1644.2	1644.2	1631.0	1587.2	1525.8	1420.6
62.5°	1280.2	1293.4	1284.6	1293.4	1310.9	1293.4	1284.6	1275.9	1245.2	1205.7	1118.0
65°	968.9	977.8	977.8	982.1	973.2	977.8	960.3	947.1	929.6	885.7	828.7
67.5°	736.7	736.7	736.7	736.7	732.1	727.8	723.5	710.3	679.6	662.1	600.6
70°	565.6	539.2	539.2	539.2	539.2	543.7	530.6	513.1	504.2	473.5	429.7
72.5°	377.0	385.8	377.0	377.0	368.3	372.7	355.2	346.3	337.7	320.1	293.8
75°	271.8	249.9	258.6	263.1	249.9	258.6	241.1	223.6	223.6	210.4	197.2
77.5°	175.4	171.1	175.4	179.7	175.4	171.1	162.2	153.4	153.4	149.1	135.9
80°	127.2	122.7	122.7	122.7	118.4	122.7	114.1	114.1	105.2	100.9	92.0
82.5°	83.4	83.4	78.9	83.4	78.9	83.4	70.2	70.2	70.2	65.7	57.0
85°	57.0	48.2	48.2	52.7	43.9	52.7	48.2	43.9	39.5	39.5	35.0
87.5°	26.3	30.7	26.3	30.7	26.3	26.3	30.7	26.3	26.3	17.5	17.5
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°	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2
2.5°	8935.4	8939.7	8939.7	8957.4	8966.1	8970.4	8970.4	9005.6	8992.4	9001.3	9009.9
5°	8808.3	8834.5	8843.3	8843.3	8891.5	8909.0	8926.5	8966.1	8970.4	8996.7	9027.4
7.5°	8685.4	8716.1	8733.8	8773.1	8803.8	8834.5	8887.2	8913.5	8939.7	8974.9	9014.2
10°	8567.1	8602.2	8637.3	8667.9	8716.1	8755.6	8790.6	8852.0	8882.9	8931.0	8983.6
12.5°	8453.2	8501.4	8532.0	8584.6	8637.3	8672.3	8725.0	8782.0	8830.2	8878.4	8939.7
15°	8352.3	8409.3	8444.3	8501.4	8558.4	8606.6	8663.6	8733.8	8768.8	8825.8	8882.9
17.5°	8242.6	8304.1	8348.0	8400.5	8470.7	8523.2	8571.6	8641.6	8685.4	8746.8	8812.7
20°	8128.7	8190.1	8242.6	8295.3	8365.5	8418.0	8475.0	8545.2	8593.4	8654.8	8707.5
22.5°	7992.8	8049.8	8106.7	8168.0	8238.2	8282.1	8348.0	8409.3	8461.8	8518.9	8571.6
25°	7817.4	7887.6	7931.5	7988.3	8045.3	8093.5	8163.7	8225.1	8268.9	8321.6	8369.8
27.5°	7611.3	7664.0	7699.0	7747.2	7804.2	7848.1	7900.6	7962.1	8006.0	8054.2	8089.2
30°	7260.5	7308.8	7339.5	7374.5	7431.6	7471.1	7514.9	7571.8	7602.5	7637.7	7668.3
32.5°	6800.1	6839.6	6857.1	6883.5	6923.0	6962.4	6997.5	7045.7	7058.9	7080.7	7080.7
35°	6133.8	6142.5	6138.2	6147.0	6164.5	6186.4	6217.0	6247.7	6265.2	6265.2	6252.2
37.5°	5353.3	5300.8	5243.8	5199.9	5186.8	5177.9	5195.6	5208.6	5226.3	5234.9	5213.1
40°	4542.3	4423.9	4296.7	4182.6	4103.8	4068.8	4055.6	4064.3	4064.3	4094.9	4094.9
42.5°	3845.2	3660.9	3472.5	3301.4	3187.4	3099.9	3060.3	3060.3	3064.7	3086.7	3099.9
45°	3266.4	3034.0	2814.7	2626.3	2468.4	2354.4	2301.8	2288.7	2284.3	2293.0	2323.7
47.5°	2823.6	2582.5	2354.4	2122.1	1955.5	1841.5	1793.3	1775.6	1758.1	1775.6	1780.1
50°	2477.2	2227.3	1986.2	1753.8	1578.3	1477.5	1416.1	1389.8	1385.4	1385.4	1394.3
52.5°	2161.4	1929.2	1688.1	1451.3	1267.0	1170.7	1113.7	1100.5	1083.0	1100.5	1100.5
55°	1863.3	1631.0	1394.3	1170.7	1017.1	916.4	863.7	846.2	837.4	850.5	850.5
57.5°	1539.0	1341.6	1122.5	920.7	767.3	697.1	657.6	635.8	631.3	640.1	631.3
60°	1262.7	1096.1	907.6	723.5	605.1	530.6	499.9	491.0	482.2	491.0	491.0
62.5°	999.6	859.4	705.8	565.6	464.7	412.2	377.0	377.0	372.7	372.7	377.0
65°	741.0	631.3	521.7	403.3	324.5	285.0	258.6	258.6	254.3	258.6	254.3
67.5°	539.2	464.7	377.0	293.8	232.4	210.4	192.9	179.7	188.6	179.7	175.4
70°	394.7	333.1	271.8	223.6	179.7	157.9	144.7	140.2	131.6	131.6	131.6
72.5°	263.1	223.6	184.1	144.7	118.4	96.4	92.0	83.4	74.5	78.9	87.7
75°	175.4	149.1	131.6	105.2	78.9	78.9	52.7	52.7	43.9	52.7	39.5
77.5°	122.7	100.9	78.9	65.7	52.7	48.2	35.0	35.0	30.7	30.7	30.7
80°	87.7	74.5	57.0	48.2	35.0	35.0	30.7	26.3	21.8	21.8	26.3
82.5°	52.7	39.5	39.5	35.0	21.8	17.5	13.2	17.5	8.8	8.8	8.8
85°	30.7	26.3	21.8	13.2	8.8	8.8	4.3	0.0	4.3	4.3	0.0
87.5°	17.5	8.8	8.8	4.3	0.0	4.3	4.3	0.0	0.0	0.0	8.8
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°	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2
2.5°	9031.9	9027.4	9036.3	9036.3	9062.6	9058.1	9071.3	9071.3	9062.6	9066.9	9084.4
5°	9062.6	9075.8	9101.9	9124.0	9163.3	9181.0	9202.8	9224.8	9229.2	9242.4	9255.5
7.5°	9062.6	9106.5	9137.1	9176.5	9229.2	9259.9	9308.0	9347.6	9365.1	9386.9	9413.3
10°	9044.9	9088.8	9145.8	9189.7	9255.5	9303.7	9351.9	9413.3	9439.6	9474.6	9509.8
12.5°	9009.9	9058.1	9119.5	9176.5	9251.0	9294.9	9356.2	9413.3	9452.8	9501.0	9540.5
15°	8957.4	9014.2	9071.3	9128.3	9207.2	9259.9	9316.9	9382.6	9422.1	9474.6	9509.8
17.5°	8874.0	8935.4	8988.1	9040.6	9115.1	9176.5	9229.2	9290.5	9330.1	9373.9	9422.1
20°	8773.1	8830.2	8887.2	8931.0	9005.6	9058.1	9115.1	9172.2	9202.8	9211.7	9286.2
22.5°	8646.1	8685.4	8729.3	8799.5	8843.3	8891.5	8944.2	8996.7	9027.4	9075.8	9101.9
25°	8435.5	8475.0	8523.2	8553.9	8606.6	8646.1	8698.6	8755.6	8773.1	8808.3	8834.5
27.5°	8141.9	8163.7	8185.7	8211.9	8242.6	8264.6	8295.3	8321.6	8339.1	8356.6	8374.1
30°	7677.0	7677.0	7677.0	7659.5	7672.7	7685.8	7690.2	7685.8	7685.8	7681.5	7681.5
32.5°	7063.2	7028.2	6988.7	6953.7	6940.5	6923.0	6914.2	6901.0	6879.2	6866.0	6870.3
35°	6234.5	6155.7	6107.5	6063.6	6028.6	6002.3	5989.1	5975.9	5971.6	5954.1	5936.4
37.5°	5199.9	5142.9	5107.9	5081.5	5050.9	5024.5	5028.8	5033.4	5046.4	5037.7	5042.0
40°	4103.8	4090.6	4103.8	4073.1	4064.3	4073.1	4094.9	4125.8	4143.3	4160.8	4191.5
42.5°	3121.7	3143.5	3174.4	3174.4	3187.4	3205.1	3231.2	3279.6	3305.8	3336.4	3371.6
45°	2350.0	2376.4	2415.9	2428.9	2437.7	2459.6	2490.4	2529.8	2547.3	2573.6	2604.3
47.5°	1810.8	1828.3	1850.1	1872.1	1894.0	1902.8	1933.5	1933.5	1955.5	1973.0	1981.7
50°	1411.8	1429.3	1446.8	1460.0	1468.8	1482.0	1490.6	1503.8	1508.1	1517.0	1521.3
52.5°	1104.8	1126.8	1126.8	1135.5	1148.7	1161.8	1157.5	1161.8	1166.2	1166.2	1179.3
55°	863.7	863.7	876.9	876.9	885.7	881.2	885.7	885.7	885.7	885.7	890.1
57.5°	644.4	649.0	662.1	653.3	649.0	657.6	649.0	657.6	653.3	662.1	649.0
60°	495.4	495.4	499.9	499.9	504.2	504.2	504.2	499.9	499.9	495.4	495.4
62.5°	372.7	377.0	381.5	377.0	377.0	377.0	372.7	372.7	368.3	363.8	363.8
65°	249.9	245.6	254.3	245.6	249.9	249.9	245.6	249.9	236.8	241.1	236.8
67.5°	179.7	175.4	171.1	175.4	171.1	166.6	166.6	171.1	175.4	162.2	162.2
70°	118.4	122.7	118.4	122.7	127.2	127.2	122.7	118.4	122.7	114.1	118.4
72.5°	74.5	74.5	74.5	74.5	74.5	78.9	78.9	78.9	70.2	70.2	65.7
75°	35.0	48.2	39.5	35.0	48.2	48.2	43.9	43.9	39.5	39.5	39.5
77.5°	35.0	26.3	26.3	26.3	26.3	26.3	26.3	26.3	21.8	26.3	21.8
80°	17.5	17.5	17.5	13.2	17.5	17.5	21.8	17.5	17.5	13.2	21.8
82.5°	8.8	8.8	8.8	0.0	4.3	8.8	8.8	4.3	8.8	8.8	4.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P248837

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2
2.5°	9080.1	9075.8	9080.1	9084.4	9080.1	9075.8	9080.1	9084.4	9066.9	9062.6	9071.3
5°	9273.0	9273.0	9281.7	9286.2	9281.7	9273.0	9273.0	9255.5	9242.4	9229.2	9224.8
7.5°	9439.6	9448.4	9457.1	9461.4	9457.1	9448.4	9439.6	9413.3	9386.9	9365.1	9347.6
10°	9540.5	9553.7	9571.2	9579.8	9571.2	9553.7	9540.5	9509.8	9474.6	9439.6	9413.3
12.5°	9584.3	9597.5	9619.3	9615.0	9619.3	9597.5	9584.3	9540.5	9501.0	9452.8	9413.3
15°	9553.7	9571.2	9593.0	9601.8	9593.0	9571.2	9553.7	9509.8	9474.6	9422.1	9382.6
17.5°	9457.1	9483.5	9496.6	9509.8	9496.6	9483.5	9457.1	9422.1	9373.9	9330.1	9290.5
20°	9325.5	9343.2	9360.7	9365.1	9360.7	9343.2	9325.5	9286.2	9211.7	9202.8	9172.2
22.5°	9137.1	9150.3	9189.7	9176.5	9189.7	9150.3	9137.1	9101.9	9075.8	9027.4	8996.7
25°	8865.2	8878.4	8882.9	8887.2	8882.9	8878.4	8865.2	8834.5	8808.3	8773.1	8755.6
27.5°	8396.2	8396.2	8404.8	8409.3	8404.8	8396.2	8396.2	8374.1	8356.6	8339.1	8321.6
30°	7685.8	7685.8	7685.8	7707.9	7685.8	7685.8	7685.8	7681.5	7681.5	7685.8	7685.8
32.5°	6866.0	6857.1	6848.5	6857.1	6848.5	6857.1	6866.0	6870.3	6866.0	6879.2	6901.0
35°	5936.4	5932.1	5945.3	5927.7	5945.3	5932.1	5936.4	5936.4	5954.1	5971.6	5975.9
37.5°	5046.4	5037.7	5055.2	5037.7	5055.2	5037.7	5046.4	5042.0	5037.7	5046.4	5033.4
40°	4200.3	4209.0	4209.0	4244.2	4209.0	4209.0	4200.3	4191.5	4160.8	4143.3	4125.8
42.5°	3389.1	3415.5	3406.6	3433.0	3406.6	3415.5	3389.1	3371.6	3336.4	3305.8	3279.6
45°	2621.8	2639.5	2639.5	2648.1	2639.5	2639.5	2621.8	2604.3	2573.6	2547.3	2529.8
47.5°	2012.4	2012.4	2012.4	2016.9	2012.4	2012.4	2012.4	1981.7	1973.0	1955.5	1933.5
50°	1530.2	1534.5	1539.0	1543.3	1539.0	1534.5	1530.2	1521.3	1517.0	1508.1	1503.8
52.5°	1175.0	1179.3	1170.7	1179.3	1170.7	1179.3	1175.0	1179.3	1166.2	1166.2	1161.8
55°	890.1	885.7	890.1	894.4	890.1	885.7	890.1	890.1	885.7	885.7	885.7
57.5°	653.3	644.4	644.4	644.4	644.4	644.4	653.3	649.0	662.1	653.3	657.6
60°	486.7	491.0	491.0	495.4	491.0	491.0	486.7	495.4	495.4	499.9	499.9
62.5°	359.5	372.7	363.8	372.7	363.8	372.7	359.5	363.8	363.8	368.3	372.7
65°	232.4	232.4	232.4	236.8	232.4	232.4	232.4	236.8	241.1	236.8	249.9
67.5°	157.9	162.2	171.1	166.6	171.1	162.2	157.9	162.2	162.2	175.4	171.1
70°	127.2	114.1	114.1	127.2	114.1	114.1	127.2	118.4	114.1	122.7	118.4
72.5°	74.5	65.7	74.5	74.5	74.5	65.7	74.5	65.7	70.2	70.2	78.9
75°	39.5	35.0	30.7	43.9	30.7	35.0	39.5	39.5	39.5	39.5	43.9
77.5°	26.3	21.8	30.7	30.7	30.7	21.8	26.3	21.8	26.3	21.8	26.3
80°	13.2	17.5	13.2	21.8	13.2	17.5	13.2	21.8	13.2	17.5	17.5
82.5°	4.3	8.8	8.8	8.8	8.8	8.8	4.3	4.3	8.8	8.8	4.3
85°	0.0	8.8	4.3	4.3	4.3	8.8	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	0.0	0.0	4.3	0.0	0.0	4.3	0.0	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: P248837

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2
2.5°	9071.3	9058.1	9062.6	9036.3	9036.3	9027.4	9031.9	9009.9	9001.3	8992.4	9005.6
5°	9202.8	9181.0	9163.3	9124.0	9101.9	9075.8	9062.6	9027.4	8996.7	8970.4	8966.1
7.5°	9308.0	9259.9	9229.2	9176.5	9137.1	9106.5	9062.6	9014.2	8974.9	8939.7	8913.5
10°	9351.9	9303.7	9255.5	9189.7	9145.8	9088.8	9044.9	8983.6	8931.0	8882.9	8852.0
12.5°	9356.2	9294.9	9251.0	9176.5	9119.5	9058.1	9009.9	8939.7	8878.4	8830.2	8782.0
15°	9316.9	9259.9	9207.2	9128.3	9071.3	9014.2	8957.4	8882.9	8825.8	8768.8	8733.8
17.5°	9229.2	9176.5	9115.1	9040.6	8988.1	8935.4	8874.0	8812.7	8746.8	8685.4	8641.6
20°	9115.1	9058.1	9005.6	8931.0	8887.2	8830.2	8773.1	8707.5	8654.8	8593.4	8545.2
22.5°	8944.2	8891.5	8843.3	8799.5	8729.3	8685.4	8646.1	8571.6	8518.9	8461.8	8409.3
25°	8698.6	8646.1	8606.6	8553.9	8523.2	8475.0	8435.5	8369.8	8321.6	8268.9	8225.1
27.5°	8295.3	8264.6	8242.6	8211.9	8185.7	8163.7	8141.9	8089.2	8054.2	8006.0	7962.1
30°	7690.2	7685.8	7672.7	7659.5	7677.0	7677.0	7677.0	7668.3	7637.7	7602.5	7571.8
32.5°	6914.2	6923.0	6940.5	6953.7	6988.7	7028.2	7063.2	7080.7	7080.7	7058.9	7045.7
35°	5989.1	6002.3	6028.6	6063.6	6107.5	6155.7	6234.5	6252.2	6265.2	6265.2	6247.7
37.5°	5028.8	5024.5	5050.9	5081.5	5107.9	5142.9	5199.9	5213.1	5234.9	5226.3	5208.6
40°	4094.9	4073.1	4064.3	4073.1	4103.8	4090.6	4103.8	4094.9	4094.9	4064.3	4064.3
42.5°	3231.2	3205.1	3187.4	3174.4	3174.4	3143.5	3121.7	3099.9	3086.7	3064.7	3060.3
45°	2490.4	2459.6	2437.7	2428.9	2415.9	2376.4	2350.0	2323.7	2293.0	2284.3	2288.7
47.5°	1933.5	1902.8	1894.0	1872.1	1850.1	1828.3	1810.8	1780.1	1775.6	1758.1	1775.6
50°	1490.6	1482.0	1468.8	1460.0	1446.8	1429.3	1411.8	1394.3	1385.4	1385.4	1389.8
52.5°	1157.5	1161.8	1148.7	1135.5	1126.8	1126.8	1104.8	1100.5	1100.5	1083.0	1100.5
55°	885.7	881.2	885.7	876.9	876.9	863.7	863.7	850.5	850.5	837.4	846.2
57.5°	649.0	657.6	649.0	653.3	662.1	649.0	644.4	631.3	640.1	631.3	635.8
60°	504.2	504.2	504.2	499.9	499.9	495.4	495.4	491.0	491.0	482.2	491.0
62.5°	372.7	377.0	377.0	377.0	381.5	377.0	372.7	377.0	372.7	372.7	377.0
65°	245.6	249.9	249.9	245.6	254.3	245.6	249.9	254.3	258.6	254.3	258.6
67.5°	166.6	166.6	171.1	175.4	171.1	175.4	179.7	175.4	179.7	188.6	179.7
70°	122.7	127.2	127.2	122.7	118.4	122.7	118.4	131.6	131.6	131.6	140.2
72.5°	78.9	78.9	74.5	74.5	74.5	74.5	74.5	87.7	78.9	74.5	83.4
75°	43.9	48.2	48.2	35.0	39.5	48.2	35.0	39.5	52.7	43.9	52.7
77.5°	26.3	26.3	26.3	26.3	26.3	26.3	35.0	30.7	30.7	30.7	35.0
80°	21.8	17.5	17.5	13.2	17.5	17.5	17.5	26.3	21.8	21.8	26.3
82.5°	8.8	8.8	4.3	0.0	8.8	8.8	8.8	8.8	8.8	8.8	17.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	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: P248837

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2
2.5°	8970.4	8970.4	8966.1	8957.4	8939.7	8939.7	8935.4	8922.2	8913.5	8909.0	8909.0
5°	8926.5	8909.0	8891.5	8843.3	8843.3	8834.5	8808.3	8790.6	8782.0	8760.0	8751.3
7.5°	8887.2	8834.5	8803.8	8773.1	8733.8	8716.1	8685.4	8672.3	8641.6	8619.7	8606.6
10°	8790.6	8755.6	8716.1	8667.9	8637.3	8602.2	8567.1	8540.9	8501.4	8479.3	8461.8
12.5°	8725.0	8672.3	8637.3	8584.6	8532.0	8501.4	8453.2	8422.5	8383.0	8339.1	8312.8
15°	8663.6	8606.6	8558.4	8501.4	8444.3	8409.3	8352.3	8317.3	8260.3	8216.4	8185.7
17.5°	8571.6	8523.2	8470.7	8400.5	8348.0	8304.1	8242.6	8198.9	8146.2	8089.2	8058.5
20°	8475.0	8418.0	8365.5	8295.3	8242.6	8190.1	8128.7	8080.5	8019.0	7966.5	7931.5
22.5°	8348.0	8282.1	8238.2	8168.0	8106.7	8049.8	7992.8	7935.8	7878.8	7834.9	7795.4
25°	8163.7	8093.5	8045.3	7988.3	7931.5	7887.6	7817.4	7782.4	7725.4	7685.8	7646.3
27.5°	7900.6	7848.1	7804.2	7747.2	7699.0	7664.0	7611.3	7576.3	7527.9	7492.9	7462.2
30°	7514.9	7471.1	7431.6	7374.5	7339.5	7308.8	7260.5	7229.8	7194.8	7155.3	7146.6
32.5°	6997.5	6962.4	6923.0	6883.5	6857.1	6839.6	6800.1	6782.6	6747.6	6725.6	6703.7
35°	6217.0	6186.4	6164.5	6147.0	6138.2	6142.5	6133.8	6151.3	6160.0	6155.7	6160.0
37.5°	5195.6	5177.9	5186.8	5199.9	5243.8	5300.8	5353.3	5432.2	5484.9	5537.6	5585.8
40°	4055.6	4068.8	4103.8	4182.6	4296.7	4423.9	4542.3	4691.4	4840.4	4945.7	5042.0
42.5°	3060.3	3099.9	3187.4	3301.4	3472.5	3660.9	3845.2	4064.3	4244.2	4419.4	4542.3
45°	2301.8	2354.4	2468.4	2626.3	2814.7	3034.0	3266.4	3511.9	3726.8	3906.5	4042.4
47.5°	1793.3	1841.5	1955.5	2122.1	2354.4	2582.5	2823.6	3077.8	3301.4	3476.8	3595.2
50°	1416.1	1477.5	1578.3	1753.8	1986.2	2227.3	2477.2	2727.0	2937.6	3086.7	3191.9
52.5°	1113.7	1170.7	1267.0	1451.3	1688.1	1929.2	2161.4	2407.0	2591.1	2735.9	2806.1
55°	863.7	916.4	1017.1	1170.7	1394.3	1631.0	1863.3	2073.9	2244.8	2350.0	2415.9
57.5°	657.6	697.1	767.3	920.7	1122.5	1341.6	1539.0	1749.4	1881.0	1955.5	1999.2
60°	499.9	530.6	605.1	723.5	907.6	1096.1	1262.7	1420.6	1525.8	1587.2	1631.0
62.5°	377.0	412.2	464.7	565.6	705.8	859.4	999.6	1118.0	1205.7	1245.2	1275.9
65°	258.6	285.0	324.5	403.3	521.7	631.3	741.0	828.7	885.7	929.6	947.1
67.5°	192.9	210.4	232.4	293.8	377.0	464.7	539.2	600.6	662.1	679.6	710.3
70°	144.7	157.9	179.7	223.6	271.8	333.1	394.7	429.7	473.5	504.2	513.1
72.5°	92.0	96.4	118.4	144.7	184.1	223.6	263.1	293.8	320.1	337.7	346.3
75°	52.7	78.9	78.9	105.2	131.6	149.1	175.4	197.2	210.4	223.6	223.6
77.5°	35.0	48.2	52.7	65.7	78.9	100.9	122.7	135.9	149.1	153.4	153.4
80°	30.7	35.0	35.0	48.2	57.0	74.5	87.7	92.0	100.9	105.2	114.1
82.5°	13.2	17.5	21.8	35.0	39.5	39.5	52.7	57.0	65.7	70.2	70.2
85°	4.3	8.8	8.8	13.2	21.8	26.3	30.7	35.0	39.5	39.5	43.9
87.5°	4.3	4.3	0.0	4.3	8.8	8.8	17.5	17.5	17.5	26.3	26.3
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: P248837

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2	8979.2
2.5°	8900.4	8904.7	8887.2	8882.9	8874.0	8878.4	8887.2
5°	8738.1	8742.5	8725.0	8707.5	8707.5	8702.9	8707.5
7.5°	8584.6	8589.1	8562.7	8553.9	8536.4	8540.9	8540.9
10°	8431.2	8431.2	8391.8	8387.3	8374.1	8369.8	8369.8
12.5°	8282.1	8268.9	8238.2	8220.7	8229.6	8203.2	8203.2
15°	8150.5	8128.7	8089.2	8076.0	8054.2	8045.3	8045.3
17.5°	8014.6	7997.1	7962.1	7935.8	7909.4	7905.1	7909.4
20°	7883.1	7865.6	7821.7	7804.2	7782.4	7782.4	7773.5
22.5°	7751.5	7734.0	7694.7	7681.5	7650.8	7650.8	7655.2
25°	7615.6	7602.5	7558.6	7549.9	7545.6	7527.9	7536.8
27.5°	7431.6	7422.7	7387.7	7374.5	7357.0	7352.7	7361.4
30°	7093.9	7080.7	7054.6	7041.4	7010.7	7015.0	7023.7
32.5°	6673.1	6655.6	6620.4	6607.2	6581.0	6572.2	6576.5
35°	6147.0	6133.8	6103.2	6103.2	6076.8	6068.0	6076.8
37.5°	5612.1	5625.1	5612.1	5625.1	5612.1	5607.6	5612.1
40°	5107.9	5156.1	5164.7	5213.1	5195.6	5221.8	5217.4
42.5°	4625.5	4704.4	4735.2	4774.6	4765.9	4783.4	4796.6
45°	4138.8	4204.7	4235.3	4261.7	4266.0	4274.9	4279.2
47.5°	3678.4	3731.1	3735.5	3766.1	3761.8	3761.8	3775.0
50°	3248.9	3283.9	3292.6	3314.6	3297.1	3288.3	3292.6
52.5°	2849.9	2884.9	2876.1	2884.9	2863.1	2854.2	2858.6
55°	2442.1	2459.6	2459.6	2459.6	2433.4	2433.4	2433.4
57.5°	2025.5	2030.1	2021.2	2025.5	2021.2	1994.9	1990.5
60°	1644.2	1644.2	1639.7	1644.2	1631.0	1617.9	1617.9
62.5°	1284.6	1293.4	1310.9	1293.4	1284.6	1293.4	1280.2
65°	960.3	977.8	973.2	982.1	977.8	977.8	968.9
67.5°	723.5	727.8	732.1	736.7	736.7	736.7	736.7
70°	530.6	543.7	539.2	539.2	539.2	539.2	565.6
72.5°	355.2	372.7	368.3	377.0	377.0	385.8	377.0
75°	241.1	258.6	249.9	263.1	258.6	249.9	271.8
77.5°	162.2	171.1	175.4	179.7	175.4	171.1	175.4
80°	114.1	122.7	118.4	122.7	122.7	122.7	127.2
82.5°	70.2	83.4	78.9	83.4	78.9	83.4	83.4
85°	48.2	52.7	43.9	52.7	48.2	48.2	57.0
87.5°	30.7	26.3	26.3	30.7	26.3	30.7	26.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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