

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: P248765

Luminaire Tested: **LD8B175D010 ER8B175827 8LBSW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248765  
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 ER8B175827 8LBSW0GPH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15931.0 lumens  
Efficiency: N/A  
Efficacy: 89.9 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

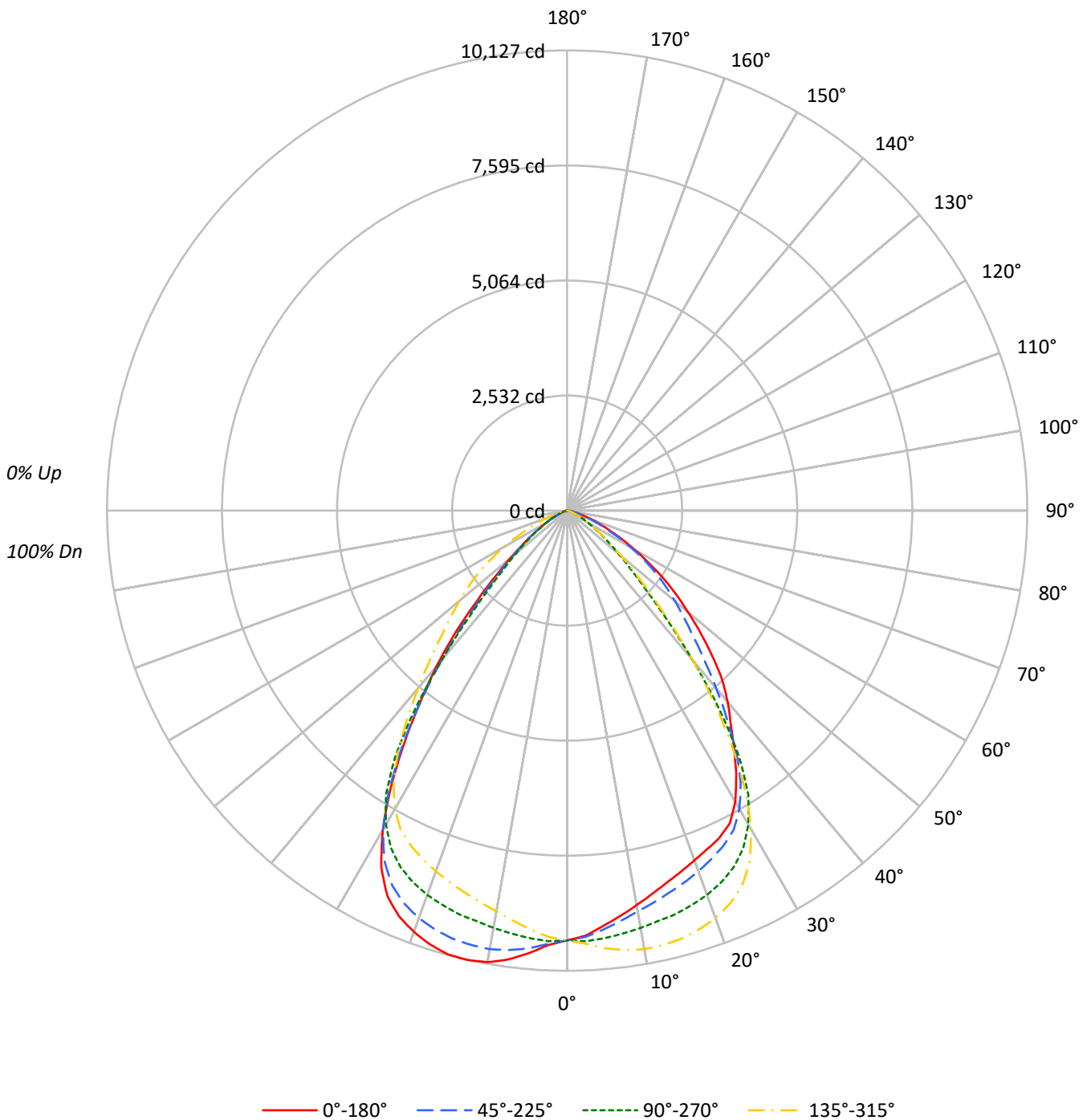
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	291641	291641	291641	291641
5°	283896	292327	302765	292327
10°	276040	291944	315948	291944
15°	270528	293676	322864	293676
20°	268685	295358	323694	295358
25°	270097	294764	318493	294764
30°	263418	283974	289077	283974
35°	240945	247721	235035	247721
40°	221216	172319	179951	172319
45°	196555	105124	121639	105124
50°	166370	70223	77985	70223
55°	137796	47918	50643	47918
60°	105096	31897	32181	31897
65°	74468	19876	18197	19876
70°	53708	13317	12081	13317
75°	34110	6612	5504	6612
80°	23796	4937	4084	4937
85°	21264	0	1628	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	900.2	5.7
10°-20°	2606.8	16.4
20°-30°	3947.3	24.8
30°-40°	3956.1	24.8
40°-50°	2484.2	15.6
50°-60°	1323.8	8.3
60°-70°	544.4	3.4
70°-80°	143.8	0.9
80°-90°	24.3	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°	7454.3	46.8
0°-40°	11410.4	71.6
0°-60°	15218.5	95.5
0°-90°	15931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15931.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	9458	9458	9458	9458	9458	
5°	9172	9444	9781	9444	9172	865
15°	8474	9199	10114	9199	8474	2397
25°	7938	8663	9361	8663	7938	3641
35°	6401	6581	6244	6581	6401	4010
45°	4507	2411	2789	2411	4507	3466
55°	2563	891	942	891	2563	2285
65°	1021	272	249	272	1021	1059
75°	286	56	46	56	286	324
85°	60	0	5	0	60	66
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°	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7
2.5°	9360.8	9351.5	9346.9	9356.2	9360.8	9379.2	9374.7	9383.8	9383.8	9388.5	9397.7
5°	9171.5	9166.7	9171.5	9171.5	9189.9	9208.3	9203.8	9217.7	9226.8	9250.0	9259.1
7.5°	8996.0	8996.0	8991.3	9009.7	9019.0	9046.8	9042.0	9065.2	9079.1	9102.1	9134.4
10°	8815.8	8815.8	8820.4	8834.3	8839.0	8880.5	8880.5	8912.8	8931.2	8954.4	8996.0
12.5°	8640.4	8640.4	8668.1	8658.8	8677.3	8709.6	8723.4	8755.8	8783.5	8829.7	8871.3
15°	8474.1	8474.1	8483.4	8506.4	8520.2	8561.9	8584.9	8621.9	8654.3	8700.4	8760.5
17.5°	8330.9	8326.4	8330.9	8358.7	8386.4	8423.3	8441.7	8487.9	8520.2	8580.3	8635.8
20°	8187.8	8197.1	8197.1	8220.1	8238.5	8284.7	8303.2	8354.1	8391.0	8446.3	8511.1
22.5°	8063.1	8058.5	8058.5	8090.8	8104.7	8146.2	8164.6	8210.8	8252.4	8298.6	8358.7
25°	7938.4	7929.1	7947.7	7952.3	7961.4	8007.6	8021.5	8053.8	8095.4	8137.0	8197.1
27.5°	7753.6	7744.5	7749.1	7767.5	7781.4	7818.3	7827.6	7859.9	7892.2	7929.1	7980.0
30°	7398.0	7388.9	7384.3	7416.6	7430.5	7458.1	7471.9	7527.4	7536.6	7578.2	7615.1
32.5°	6927.0	6922.4	6931.7	6959.3	6973.2	7010.2	7028.7	7061.0	7084.0	7107.2	7144.0
35°	6400.6	6391.3	6400.6	6428.4	6428.4	6460.7	6474.6	6488.3	6483.7	6488.3	6479.1
37.5°	5911.2	5906.4	5911.2	5924.9	5911.2	5924.9	5911.2	5883.4	5832.7	5777.2	5721.7
40°	5495.5	5500.0	5472.5	5490.9	5440.0	5430.8	5380.1	5310.7	5209.2	5098.4	4941.4
42.5°	5052.2	5038.3	5019.9	5029.0	4987.6	4955.1	4872.0	4784.4	4654.9	4470.4	4280.8
45°	4507.2	4502.7	4493.4	4488.8	4461.0	4428.7	4359.3	4257.8	4114.7	3925.4	3699.0
47.5°	3976.1	3962.3	3962.3	3966.8	3934.5	3929.9	3874.4	3786.8	3662.1	3477.4	3241.9
50°	3468.0	3463.5	3472.8	3491.2	3468.0	3458.9	3422.0	3362.0	3251.2	3094.2	2872.3
52.5°	3010.9	3006.3	3015.7	3038.7	3029.3	3038.7	3001.8	2955.6	2881.6	2729.2	2535.3
55°	2563.1	2563.1	2563.1	2590.6	2590.6	2590.6	2572.2	2544.6	2475.3	2364.4	2184.4
57.5°	2096.6	2101.2	2128.9	2133.5	2128.9	2138.2	2133.5	2105.7	2059.7	1981.2	1842.7
60°	1704.1	1704.1	1718.0	1731.8	1727.1	1731.8	1731.8	1718.0	1671.8	1607.1	1496.3
62.5°	1348.4	1362.3	1353.0	1362.3	1380.8	1362.3	1353.0	1343.9	1311.6	1269.9	1177.6
65°	1020.6	1029.9	1029.9	1034.4	1025.1	1029.9	1011.4	997.6	979.1	932.9	872.9
67.5°	775.9	775.9	775.9	775.9	771.2	766.6	762.0	748.2	715.8	697.4	632.6
70°	595.7	568.0	568.0	568.0	568.0	572.7	558.8	540.4	531.1	498.8	452.6
72.5°	397.1	406.4	397.1	397.1	388.0	392.5	374.1	364.8	355.6	337.2	309.5
75°	286.3	263.3	272.4	277.1	263.3	272.4	253.9	235.5	235.5	221.6	207.8
77.5°	184.8	180.2	184.8	189.3	184.8	180.2	170.9	161.6	161.6	157.0	143.1
80°	134.0	129.3	129.3	129.3	124.7	129.3	120.1	120.1	110.8	106.3	96.9
82.5°	87.8	87.8	83.1	87.8	83.1	87.8	73.9	73.9	73.9	69.2	60.1
85°	60.1	50.8	50.8	55.5	46.2	55.5	50.8	46.2	41.6	41.6	36.9
87.5°	27.8	32.3	27.8	32.3	27.8	27.8	32.3	27.8	27.8	18.4	18.4
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°	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7
2.5°	9411.5	9416.1	9416.1	9434.7	9443.9	9448.4	9448.4	9485.5	9471.6	9480.9	9490.0
5°	9277.7	9305.3	9314.6	9314.6	9365.4	9383.8	9402.2	9443.9	9448.4	9476.2	9508.5
7.5°	9148.3	9180.6	9199.2	9240.7	9273.0	9305.3	9360.8	9388.5	9416.1	9453.2	9494.6
10°	9023.6	9060.6	9097.5	9129.8	9180.6	9222.2	9259.1	9323.7	9356.2	9407.0	9462.3
12.5°	8903.6	8954.4	8986.7	9042.0	9097.5	9134.4	9189.9	9250.0	9300.7	9351.5	9416.1
15°	8797.4	8857.5	8894.3	8954.4	9014.5	9065.2	9125.3	9199.2	9236.1	9296.2	9356.2
17.5°	8681.8	8746.6	8792.8	8848.1	8922.1	8977.4	9028.3	9102.1	9148.3	9212.9	9282.3
20°	8561.9	8626.5	8681.8	8737.3	8811.3	8866.6	8926.6	9000.6	9051.3	9116.0	9171.5
22.5°	8418.7	8478.8	8538.7	8603.3	8677.3	8723.4	8792.8	8857.5	8912.8	8972.8	9028.3
25°	8234.0	8307.9	8354.1	8414.0	8474.1	8524.8	8598.7	8663.4	8709.6	8765.1	8815.8
27.5°	8016.9	8072.4	8109.3	8160.0	8220.1	8266.3	8321.6	8386.4	8432.6	8483.4	8520.2
30°	7647.4	7698.3	7730.6	7767.5	7827.6	7869.2	7915.4	7975.3	8007.6	8044.7	8077.0
32.5°	7162.5	7204.1	7222.6	7250.3	7291.9	7333.4	7370.4	7421.2	7435.1	7458.1	7458.1
35°	6460.7	6469.8	6465.3	6474.6	6493.0	6516.0	6548.3	6580.6	6599.1	6599.1	6585.4
37.5°	5638.6	5583.3	5523.2	5477.0	5463.2	5453.8	5472.5	5486.2	5504.8	5513.9	5490.9
40°	4784.4	4659.7	4525.7	4405.5	4322.5	4285.6	4271.7	4280.8	4280.8	4313.2	4313.2
42.5°	4050.1	3856.0	3657.6	3477.4	3357.2	3265.0	3223.4	3223.4	3228.0	3251.2	3265.0
45°	3440.5	3195.7	2964.7	2766.3	2599.9	2479.8	2424.5	2410.6	2406.1	2415.2	2447.5
47.5°	2974.0	2720.1	2479.8	2235.2	2059.7	1939.6	1888.8	1870.2	1851.8	1870.2	1875.0
50°	2609.3	2346.0	2092.0	1847.2	1662.5	1556.2	1491.6	1463.8	1459.3	1459.3	1468.6
52.5°	2276.6	2032.0	1778.0	1528.6	1334.6	1233.1	1173.0	1159.1	1140.7	1159.1	1159.1
55°	1962.6	1718.0	1468.6	1233.1	1071.3	965.2	909.7	891.3	882.0	895.9	895.9
57.5°	1621.0	1413.1	1182.3	969.8	808.2	734.3	692.7	669.7	664.9	674.2	664.9
60°	1330.0	1154.6	955.9	762.0	637.3	558.8	526.5	517.2	507.9	517.2	517.2
62.5°	1052.9	905.2	743.4	595.7	489.5	434.1	397.1	397.1	392.5	392.5	397.1
65°	780.5	664.9	549.5	424.8	341.8	300.1	272.4	272.4	267.8	272.4	267.8
67.5°	568.0	489.5	397.1	309.5	244.8	221.6	203.2	189.3	198.6	189.3	184.8
70°	415.7	350.9	286.3	235.5	189.3	166.3	152.4	147.7	138.6	138.6	138.6
72.5°	277.1	235.5	193.9	152.4	124.7	101.5	96.9	87.8	78.5	83.1	92.4
75°	184.8	157.0	138.6	110.8	83.1	83.1	55.5	55.5	46.2	55.5	41.6
77.5°	129.3	106.3	83.1	69.2	55.5	50.8	36.9	36.9	32.3	32.3	32.3
80°	92.4	78.5	60.1	50.8	36.9	36.9	32.3	27.8	23.0	23.0	27.8
82.5°	55.5	41.6	41.6	36.9	23.0	18.4	13.9	18.4	9.3	9.3	9.3
85°	32.3	27.8	23.0	13.9	9.3	9.3	4.6	0.0	4.6	4.6	0.0
87.5°	18.4	9.3	9.3	4.6	0.0	4.6	4.6	0.0	0.0	0.0	9.3
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°	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7
2.5°	9513.2	9508.5	9517.8	9517.8	9545.5	9540.8	9554.7	9554.7	9545.5	9550.1	9568.5
5°	9545.5	9559.4	9587.0	9610.2	9651.6	9670.2	9693.2	9716.4	9721.0	9734.9	9748.7
7.5°	9545.5	9591.7	9624.1	9665.5	9721.0	9753.3	9804.1	9845.7	9864.1	9887.1	9914.9
10°	9526.9	9573.1	9633.2	9679.4	9748.7	9799.5	9850.2	9914.9	9942.6	9979.5	10016.6
12.5°	9490.0	9540.8	9605.4	9665.5	9744.0	9790.2	9854.8	9914.9	9956.5	10007.3	10048.9
15°	9434.7	9494.6	9554.7	9614.7	9697.8	9753.3	9813.4	9882.6	9924.2	9979.5	10016.6
17.5°	9346.9	9411.5	9467.0	9522.4	9600.9	9665.5	9721.0	9785.6	9827.3	9873.4	9924.2
20°	9240.7	9300.7	9360.8	9407.0	9485.5	9540.8	9600.9	9660.9	9693.2	9702.6	9781.1
22.5°	9106.8	9148.3	9194.5	9268.4	9314.6	9365.4	9420.9	9476.2	9508.5	9559.4	9587.0
25°	8885.0	8926.6	8977.4	9009.7	9065.2	9106.8	9162.2	9222.2	9240.7	9277.7	9305.3
27.5°	8575.7	8598.7	8621.9	8649.5	8681.8	8705.0	8737.3	8765.1	8783.5	8801.9	8820.4
30°	8086.1	8086.1	8086.1	8067.7	8081.5	8095.4	8100.0	8095.4	8095.4	8090.8	8090.8
32.5°	7439.6	7402.8	7361.1	7324.2	7310.4	7291.9	7282.6	7268.7	7245.7	7231.9	7236.4
35°	6566.8	6483.7	6433.0	6386.8	6349.9	6322.1	6308.3	6294.4	6289.8	6271.4	6252.8
37.5°	5477.0	5417.0	5380.1	5352.3	5320.0	5292.3	5296.8	5301.6	5315.3	5306.1	5310.7
40°	4322.5	4308.6	4322.5	4290.2	4280.8	4290.2	4313.2	4345.7	4364.1	4382.5	4414.8
42.5°	3288.0	3311.0	3343.5	3343.5	3357.2	3375.9	3403.4	3454.4	3481.9	3514.2	3551.3
45°	2475.3	2503.0	2544.6	2558.3	2567.6	2590.6	2623.1	2664.6	2683.0	2710.8	2743.1
47.5°	1907.3	1925.7	1948.7	1971.9	1994.9	2004.2	2036.5	2036.5	2059.7	2078.2	2087.3
50°	1487.0	1505.5	1523.9	1537.8	1547.1	1561.0	1570.1	1584.0	1588.5	1597.8	1602.4
52.5°	1163.7	1186.9	1186.9	1196.0	1209.9	1223.7	1219.2	1223.7	1228.3	1228.3	1242.2
55°	909.7	909.7	923.6	923.6	932.9	928.2	932.9	932.9	932.9	932.9	937.5
57.5°	678.8	683.5	697.4	688.1	683.5	692.7	683.5	692.7	688.1	697.4	683.5
60°	521.8	521.8	526.5	526.5	531.1	531.1	531.1	526.5	526.5	521.8	521.8
62.5°	392.5	397.1	401.8	397.1	397.1	397.1	392.5	392.5	388.0	383.2	383.2
65°	263.3	258.7	267.8	258.7	263.3	263.3	258.7	263.3	249.4	253.9	249.4
67.5°	189.3	184.8	180.2	184.8	180.2	175.4	175.4	180.2	184.8	170.9	170.9
70°	124.7	129.3	124.7	129.3	134.0	134.0	129.3	124.7	129.3	120.1	124.7
72.5°	78.5	78.5	78.5	78.5	78.5	83.1	83.1	83.1	73.9	73.9	69.2
75°	36.9	50.8	41.6	36.9	50.8	50.8	46.2	46.2	41.6	41.6	41.6
77.5°	36.9	27.8	27.8	27.8	27.8	27.8	27.8	27.8	23.0	27.8	23.0
80°	18.4	18.4	18.4	13.9	18.4	18.4	23.0	18.4	18.4	13.9	23.0
82.5°	9.3	9.3	9.3	0.0	4.6	9.3	9.3	4.6	9.3	9.3	4.6
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: P248765

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7
2.5°	9564.0	9559.4	9564.0	9568.5	9564.0	9559.4	9564.0	9568.5	9550.1	9545.5	9554.7
5°	9767.2	9767.2	9776.3	9781.1	9776.3	9767.2	9767.2	9748.7	9734.9	9721.0	9716.4
7.5°	9942.6	9951.9	9961.1	9965.6	9961.1	9951.9	9942.6	9914.9	9887.1	9864.1	9845.7
10°	10048.9	10062.8	10081.2	10090.3	10081.2	10062.8	10048.9	10016.6	9979.5	9942.6	9914.9
12.5°	10095.1	10109.0	10132.0	10127.4	10132.0	10109.0	10095.1	10048.9	10007.3	9956.5	9914.9
15°	10062.8	10081.2	10104.2	10113.5	10104.2	10081.2	10062.8	10016.6	9979.5	9924.2	9882.6
17.5°	9961.1	9988.8	10002.7	10016.6	10002.7	9988.8	9961.1	9924.2	9873.4	9827.3	9785.6
20°	9822.5	9841.1	9859.6	9864.1	9859.6	9841.1	9822.5	9781.1	9702.6	9693.2	9660.9
22.5°	9624.1	9637.9	9679.4	9665.5	9679.4	9637.9	9624.1	9587.0	9559.4	9508.5	9476.2
25°	9337.6	9351.5	9356.2	9360.8	9356.2	9351.5	9337.6	9305.3	9277.7	9240.7	9222.2
27.5°	8843.6	8843.6	8852.7	8857.5	8852.7	8843.6	8843.6	8820.4	8801.9	8783.5	8765.1
30°	8095.4	8095.4	8095.4	8118.6	8095.4	8095.4	8095.4	8090.8	8090.8	8095.4	8095.4
32.5°	7231.9	7222.6	7213.4	7222.6	7213.4	7222.6	7231.9	7236.4	7231.9	7245.7	7268.7
35°	6252.8	6248.2	6262.1	6243.6	6262.1	6248.2	6252.8	6252.8	6271.4	6289.8	6294.4
37.5°	5315.3	5306.1	5324.6	5306.1	5324.6	5306.1	5315.3	5310.7	5306.1	5315.3	5301.6
40°	4424.2	4433.3	4433.3	4470.4	4433.3	4433.3	4424.2	4414.8	4382.5	4364.1	4345.7
42.5°	3569.7	3597.5	3588.2	3615.9	3588.2	3597.5	3569.7	3551.3	3514.2	3481.9	3454.4
45°	2761.5	2780.1	2780.1	2789.3	2780.1	2780.1	2761.5	2743.1	2710.8	2683.0	2664.6
47.5°	2119.6	2119.6	2119.6	2124.4	2119.6	2119.6	2119.6	2087.3	2078.2	2059.7	2036.5
50°	1611.7	1616.3	1621.0	1625.6	1621.0	1616.3	1611.7	1602.4	1597.8	1588.5	1584.0
52.5°	1237.6	1242.2	1233.1	1242.2	1233.1	1242.2	1237.6	1242.2	1228.3	1228.3	1223.7
55°	937.5	932.9	937.5	942.0	937.5	932.9	937.5	937.5	932.9	932.9	932.9
57.5°	688.1	678.8	678.8	678.8	678.8	678.8	688.1	683.5	697.4	688.1	692.7
60°	512.7	517.2	517.2	521.8	517.2	517.2	512.7	521.8	521.8	526.5	526.5
62.5°	378.6	392.5	383.2	392.5	383.2	392.5	378.6	383.2	383.2	388.0	392.5
65°	244.8	244.8	244.8	249.4	244.8	244.8	244.8	249.4	253.9	249.4	263.3
67.5°	166.3	170.9	180.2	175.4	180.2	170.9	166.3	170.9	170.9	184.8	180.2
70°	134.0	120.1	120.1	134.0	120.1	120.1	134.0	124.7	120.1	129.3	124.7
72.5°	78.5	69.2	78.5	78.5	78.5	69.2	78.5	69.2	73.9	73.9	83.1
75°	41.6	36.9	32.3	46.2	32.3	36.9	41.6	41.6	41.6	41.6	46.2
77.5°	27.8	23.0	32.3	32.3	32.3	23.0	27.8	23.0	27.8	23.0	27.8
80°	13.9	18.4	13.9	23.0	13.9	18.4	13.9	23.0	13.9	18.4	18.4
82.5°	4.6	9.3	9.3	9.3	9.3	9.3	4.6	4.6	9.3	9.3	4.6
85°	0.0	9.3	4.6	4.6	4.6	9.3	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	0.0	0.0	4.6	0.0	0.0	4.6	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: P248765

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7
2.5°	9554.7	9540.8	9545.5	9517.8	9517.8	9508.5	9513.2	9490.0	9480.9	9471.6	9485.5
5°	9693.2	9670.2	9651.6	9610.2	9587.0	9559.4	9545.5	9508.5	9476.2	9448.4	9443.9
7.5°	9804.1	9753.3	9721.0	9665.5	9624.1	9591.7	9545.5	9494.6	9453.2	9416.1	9388.5
10°	9850.2	9799.5	9748.7	9679.4	9633.2	9573.1	9526.9	9462.3	9407.0	9356.2	9323.7
12.5°	9854.8	9790.2	9744.0	9665.5	9605.4	9540.8	9490.0	9416.1	9351.5	9300.7	9250.0
15°	9813.4	9753.3	9697.8	9614.7	9554.7	9494.6	9434.7	9356.2	9296.2	9236.1	9199.2
17.5°	9721.0	9665.5	9600.9	9522.4	9467.0	9411.5	9346.9	9282.3	9212.9	9148.3	9102.1
20°	9600.9	9540.8	9485.5	9407.0	9360.8	9300.7	9240.7	9171.5	9116.0	9051.3	9000.6
22.5°	9420.9	9365.4	9314.6	9268.4	9194.5	9148.3	9106.8	9028.3	8972.8	8912.8	8857.5
25°	9162.2	9106.8	9065.2	9009.7	8977.4	8926.6	8885.0	8815.8	8765.1	8709.6	8663.4
27.5°	8737.3	8705.0	8681.8	8649.5	8621.9	8598.7	8575.7	8520.2	8483.4	8432.6	8386.4
30°	8100.0	8095.4	8081.5	8067.7	8086.1	8086.1	8086.1	8077.0	8044.7	8007.6	7975.3
32.5°	7282.6	7291.9	7310.4	7324.2	7361.1	7402.8	7439.6	7458.1	7458.1	7435.1	7421.2
35°	6308.3	6322.1	6349.9	6386.8	6433.0	6483.7	6566.8	6585.4	6599.1	6599.1	6580.6
37.5°	5296.8	5292.3	5320.0	5352.3	5380.1	5417.0	5477.0	5490.9	5513.9	5504.8	5486.2
40°	4313.2	4290.2	4280.8	4290.2	4322.5	4308.6	4322.5	4313.2	4313.2	4280.8	4280.8
42.5°	3403.4	3375.9	3357.2	3343.5	3343.5	3311.0	3288.0	3265.0	3251.2	3228.0	3223.4
45°	2623.1	2590.6	2567.6	2558.3	2544.6	2503.0	2475.3	2447.5	2415.2	2406.1	2410.6
47.5°	2036.5	2004.2	1994.9	1971.9	1948.7	1925.7	1907.3	1875.0	1870.2	1851.8	1870.2
50°	1570.1	1561.0	1547.1	1537.8	1523.9	1505.5	1487.0	1468.6	1459.3	1459.3	1463.8
52.5°	1219.2	1223.7	1209.9	1196.0	1186.9	1186.9	1163.7	1159.1	1159.1	1140.7	1159.1
55°	932.9	928.2	932.9	923.6	923.6	909.7	909.7	895.9	895.9	882.0	891.3
57.5°	683.5	692.7	683.5	688.1	697.4	683.5	678.8	664.9	674.2	664.9	669.7
60°	531.1	531.1	531.1	526.5	526.5	521.8	521.8	517.2	517.2	507.9	517.2
62.5°	392.5	397.1	397.1	397.1	401.8	397.1	392.5	397.1	392.5	392.5	397.1
65°	258.7	263.3	263.3	258.7	267.8	258.7	263.3	267.8	272.4	267.8	272.4
67.5°	175.4	175.4	180.2	184.8	180.2	184.8	189.3	184.8	189.3	198.6	189.3
70°	129.3	134.0	134.0	129.3	124.7	129.3	124.7	138.6	138.6	138.6	147.7
72.5°	83.1	83.1	78.5	78.5	78.5	78.5	78.5	92.4	83.1	78.5	87.8
75°	46.2	50.8	50.8	36.9	41.6	50.8	36.9	41.6	55.5	46.2	55.5
77.5°	27.8	27.8	27.8	27.8	27.8	27.8	36.9	32.3	32.3	32.3	36.9
80°	23.0	18.4	18.4	13.9	18.4	18.4	18.4	27.8	23.0	23.0	27.8
82.5°	9.3	9.3	4.6	0.0	9.3	9.3	9.3	9.3	9.3	9.3	18.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	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: P248765

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7
2.5°	9448.4	9448.4	9443.9	9434.7	9416.1	9416.1	9411.5	9397.7	9388.5	9383.8	9383.8
5°	9402.2	9383.8	9365.4	9314.6	9314.6	9305.3	9277.7	9259.1	9250.0	9226.8	9217.7
7.5°	9360.8	9305.3	9273.0	9240.7	9199.2	9180.6	9148.3	9134.4	9102.1	9079.1	9065.2
10°	9259.1	9222.2	9180.6	9129.8	9097.5	9060.6	9023.6	8996.0	8954.4	8931.2	8912.8
12.5°	9189.9	9134.4	9097.5	9042.0	8986.7	8954.4	8903.6	8871.3	8829.7	8783.5	8755.8
15°	9125.3	9065.2	9014.5	8954.4	8894.3	8857.5	8797.4	8760.5	8700.4	8654.3	8621.9
17.5°	9028.3	8977.4	8922.1	8848.1	8792.8	8746.6	8681.8	8635.8	8580.3	8520.2	8487.9
20°	8926.6	8866.6	8811.3	8737.3	8681.8	8626.5	8561.9	8511.1	8446.3	8391.0	8354.1
22.5°	8792.8	8723.4	8677.3	8603.3	8538.7	8478.8	8418.7	8358.7	8298.6	8252.4	8210.8
25°	8598.7	8524.8	8474.1	8414.0	8354.1	8307.9	8234.0	8197.1	8137.0	8095.4	8053.8
27.5°	8321.6	8266.3	8220.1	8160.0	8109.3	8072.4	8016.9	7980.0	7929.1	7892.2	7859.9
30°	7915.4	7869.2	7827.6	7767.5	7730.6	7698.3	7647.4	7615.1	7578.2	7536.6	7527.4
32.5°	7370.4	7333.4	7291.9	7250.3	7222.6	7204.1	7162.5	7144.0	7107.2	7084.0	7061.0
35°	6548.3	6516.0	6493.0	6474.6	6465.3	6469.8	6460.7	6479.1	6488.3	6483.7	6488.3
37.5°	5472.5	5453.8	5463.2	5477.0	5523.2	5583.3	5638.6	5721.7	5777.2	5832.7	5883.4
40°	4271.7	4285.6	4322.5	4405.5	4525.7	4659.7	4784.4	4941.4	5098.4	5209.2	5310.7
42.5°	3223.4	3265.0	3357.2	3477.4	3657.6	3856.0	4050.1	4280.8	4470.4	4654.9	4784.4
45°	2424.5	2479.8	2599.9	2766.3	2964.7	3195.7	3440.5	3699.0	3925.4	4114.7	4257.8
47.5°	1888.8	1939.6	2059.7	2235.2	2479.8	2720.1	2974.0	3241.9	3477.4	3662.1	3786.8
50°	1491.6	1556.2	1662.5	1847.2	2092.0	2346.0	2609.3	2872.3	3094.2	3251.2	3362.0
52.5°	1173.0	1233.1	1334.6	1528.6	1778.0	2032.0	2276.6	2535.3	2729.2	2881.6	2955.6
55°	909.7	965.2	1071.3	1233.1	1468.6	1718.0	1962.6	2184.4	2364.4	2475.3	2544.6
57.5°	692.7	734.3	808.2	969.8	1182.3	1413.1	1621.0	1842.7	1981.2	2059.7	2105.7
60°	526.5	558.8	637.3	762.0	955.9	1154.6	1330.0	1496.3	1607.1	1671.8	1718.0
62.5°	397.1	434.1	489.5	595.7	743.4	905.2	1052.9	1177.6	1269.9	1311.6	1343.9
65°	272.4	300.1	341.8	424.8	549.5	664.9	780.5	872.9	932.9	979.1	997.6
67.5°	203.2	221.6	244.8	309.5	397.1	489.5	568.0	632.6	697.4	715.8	748.2
70°	152.4	166.3	189.3	235.5	286.3	350.9	415.7	452.6	498.8	531.1	540.4
72.5°	96.9	101.5	124.7	152.4	193.9	235.5	277.1	309.5	337.2	355.6	364.8
75°	55.5	83.1	83.1	110.8	138.6	157.0	184.8	207.8	221.6	235.5	235.5
77.5°	36.9	50.8	55.5	69.2	83.1	106.3	129.3	143.1	157.0	161.6	161.6
80°	32.3	36.9	36.9	50.8	60.1	78.5	92.4	96.9	106.3	110.8	120.1
82.5°	13.9	18.4	23.0	36.9	41.6	41.6	55.5	60.1	69.2	73.9	73.9
85°	4.6	9.3	9.3	13.9	23.0	27.8	32.3	36.9	41.6	41.6	46.2
87.5°	4.6	4.6	0.0	4.6	9.3	9.3	18.4	18.4	18.4	27.8	27.8
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: P248765

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBSW0GPH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7	9457.7
2.5°	9374.7	9379.2	9360.8	9356.2	9346.9	9351.5	9360.8
5°	9203.8	9208.3	9189.9	9171.5	9171.5	9166.7	9171.5
7.5°	9042.0	9046.8	9019.0	9009.7	8991.3	8996.0	8996.0
10°	8880.5	8880.5	8839.0	8834.3	8820.4	8815.8	8815.8
12.5°	8723.4	8709.6	8677.3	8658.8	8668.1	8640.4	8640.4
15°	8584.9	8561.9	8520.2	8506.4	8483.4	8474.1	8474.1
17.5°	8441.7	8423.3	8386.4	8358.7	8330.9	8326.4	8330.9
20°	8303.2	8284.7	8238.5	8220.1	8197.1	8197.1	8187.8
22.5°	8164.6	8146.2	8104.7	8090.8	8058.5	8058.5	8063.1
25°	8021.5	8007.6	7961.4	7952.3	7947.7	7929.1	7938.4
27.5°	7827.6	7818.3	7781.4	7767.5	7749.1	7744.5	7753.6
30°	7471.9	7458.1	7430.5	7416.6	7384.3	7388.9	7398.0
32.5°	7028.7	7010.2	6973.2	6959.3	6931.7	6922.4	6927.0
35°	6474.6	6460.7	6428.4	6428.4	6400.6	6391.3	6400.6
37.5°	5911.2	5924.9	5911.2	5924.9	5911.2	5906.4	5911.2
40°	5380.1	5430.8	5440.0	5490.9	5472.5	5500.0	5495.5
42.5°	4872.0	4955.1	4987.6	5029.0	5019.9	5038.3	5052.2
45°	4359.3	4428.7	4461.0	4488.8	4493.4	4502.7	4507.2
47.5°	3874.4	3929.9	3934.5	3966.8	3962.3	3962.3	3976.1
50°	3422.0	3458.9	3468.0	3491.2	3472.8	3463.5	3468.0
52.5°	3001.8	3038.7	3029.3	3038.7	3015.7	3006.3	3010.9
55°	2572.2	2590.6	2590.6	2590.6	2563.1	2563.1	2563.1
57.5°	2133.5	2138.2	2128.9	2133.5	2128.9	2101.2	2096.6
60°	1731.8	1731.8	1727.1	1731.8	1718.0	1704.1	1704.1
62.5°	1353.0	1362.3	1380.8	1362.3	1353.0	1362.3	1348.4
65°	1011.4	1029.9	1025.1	1034.4	1029.9	1029.9	1020.6
67.5°	762.0	766.6	771.2	775.9	775.9	775.9	775.9
70°	558.8	572.7	568.0	568.0	568.0	568.0	595.7
72.5°	374.1	392.5	388.0	397.1	397.1	406.4	397.1
75°	253.9	272.4	263.3	277.1	272.4	263.3	286.3
77.5°	170.9	180.2	184.8	189.3	184.8	180.2	184.8
80°	120.1	129.3	124.7	129.3	129.3	129.3	134.0
82.5°	73.9	87.8	83.1	87.8	83.1	87.8	87.8
85°	50.8	55.5	46.2	55.5	50.8	50.8	60.1
87.5°	32.3	27.8	27.8	32.3	27.8	32.3	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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