

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: P248775

Luminaire Tested: **LD8B200D010 ER8B200830 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248775
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: LD8B200D010 ER8B200830 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19249.0 lumens
Efficiency: N/A
Efficacy: 86.2 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

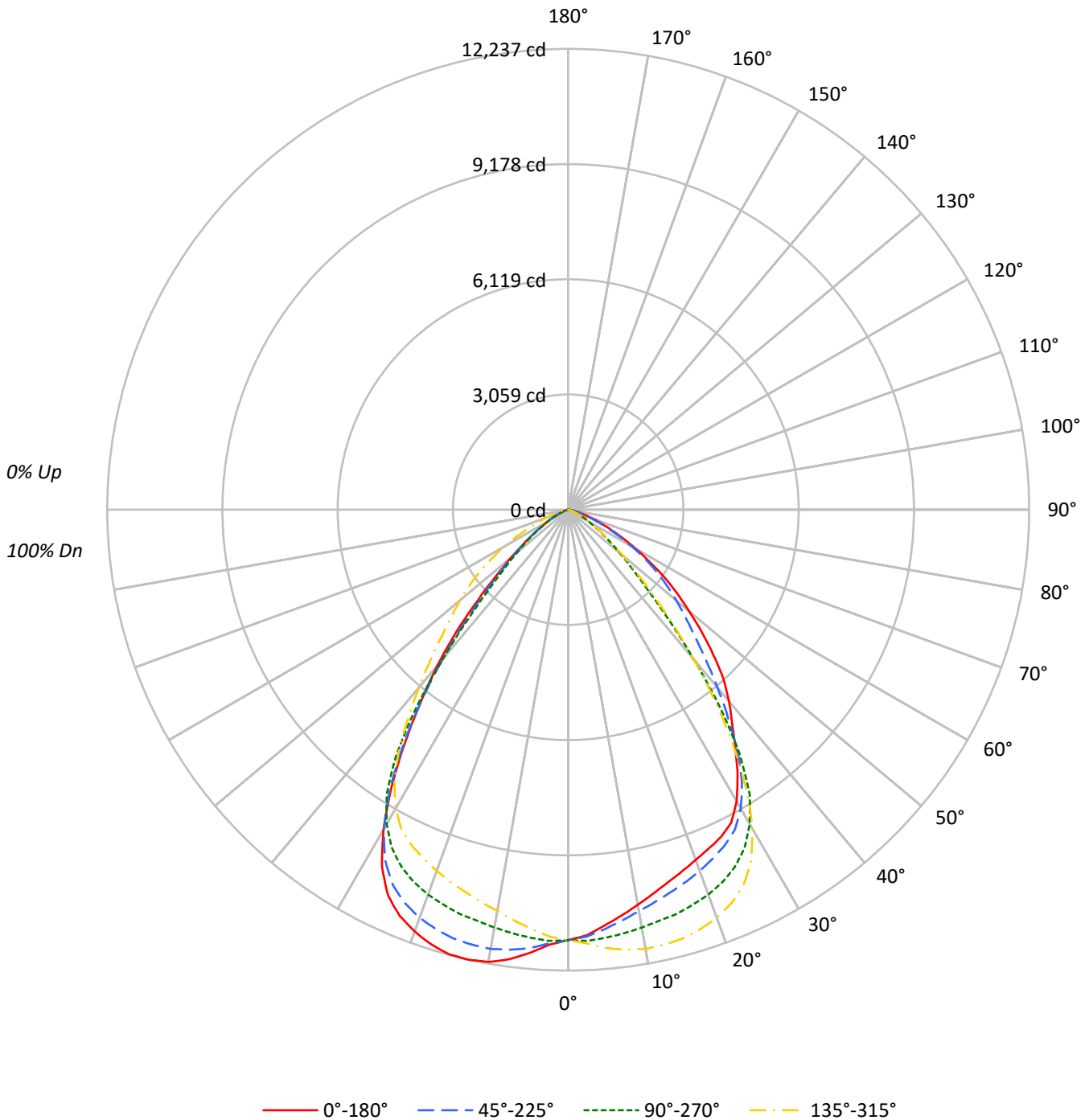
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	352382	352382	352382	352382
5°	343021	353211	365822	353211
10°	333532	352749	381753	352749
15°	326871	354843	390109	354843
20°	324645	356873	391113	356873
25°	326352	356154	384826	356154
30°	318281	343117	349284	343117
35°	291129	299316	283988	299316
40°	267286	208210	217428	208210
45°	237495	127020	146972	127020
50°	201025	84849	94223	84849
55°	166494	57896	61197	57896
60°	126984	38539	38878	38539
65°	89973	24013	21984	24013
70°	64897	16093	14597	16093
75°	41211	7994	6648	7994
80°	28750	5949	4937	5949
85°	25686	0	1946	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1087.7	5.7
10°-20°	3149.7	16.4
20°-30°	4769.4	24.8
30°-40°	4780.1	24.8
40°-50°	3001.6	15.6
50°-60°	1599.6	8.3
60°-70°	657.8	3.4
70°-80°	173.8	0.9
80°-90°	29.4	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°	9006.8	46.8
0°-40°	13786.8	71.6
0°-60°	18388.1	95.5
0°-90°	19249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19249.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11428	11428	11428	11428	11428	
5°	11082	11411	11818	11411	11082	###
15°	10239	11115	12220	11115	10239	2896
25°	9592	10468	11310	10468	9592	4399
35°	7734	7951	7544	7951	7734	4845
45°	5446	2913	3370	2913	5446	4188
55°	3097	1077	1138	1077	3097	2761
65°	1233	329	301	329	1233	1279
75°	346	67	56	67	346	392
85°	73	0	6	0	73	80
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°	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5
2.5°	11310.4	11299.1	11293.6	11304.9	11310.4	11332.7	11327.2	11338.2	11338.2	11343.9	11354.9
5°	11081.6	11075.9	11081.6	11081.6	11103.9	11126.2	11120.7	11137.4	11148.5	11176.5	11187.5
7.5°	10869.7	10869.7	10863.9	10886.2	10897.4	10931.0	10925.2	10953.3	10970.0	10997.8	11036.9
10°	10651.9	10651.9	10657.4	10674.2	10679.9	10730.0	10730.0	10769.1	10791.3	10819.4	10869.7
12.5°	10439.9	10439.9	10473.5	10462.2	10484.5	10523.5	10540.3	10579.3	10612.9	10668.7	10719.0
15°	10239.0	10239.0	10250.2	10278.0	10294.8	10345.1	10372.9	10417.7	10456.7	10512.5	10585.1
17.5°	10066.0	10060.5	10066.0	10099.6	10133.1	10177.7	10199.9	10255.7	10294.8	10367.4	10434.4
20°	9893.1	9904.3	9904.3	9932.1	9954.4	10010.2	10032.5	10094.1	10138.6	10205.4	10283.8
22.5°	9742.4	9736.9	9736.9	9776.0	9792.7	9842.8	9865.1	9920.9	9971.2	10027.0	10099.6
25°	9591.8	9580.5	9603.0	9608.5	9619.5	9675.4	9692.1	9731.2	9781.5	9831.8	9904.3
27.5°	9368.5	9357.5	9363.0	9385.3	9402.1	9446.6	9457.9	9496.9	9535.9	9580.5	9642.1
30°	8938.8	8927.8	8922.3	8961.3	8978.1	9011.4	9028.1	9095.2	9106.2	9156.5	9201.1
32.5°	8369.7	8364.2	8375.4	8408.7	8425.5	8470.3	8492.6	8531.6	8559.4	8587.4	8632.0
35°	7733.7	7722.5	7733.7	7767.3	7767.3	7806.3	7823.1	7839.6	7834.1	7839.6	7828.6
37.5°	7142.3	7136.6	7142.3	7158.9	7142.3	7158.9	7142.3	7108.8	7047.5	6980.4	6913.3
40°	6640.0	6645.5	6612.2	6634.5	6573.0	6561.9	6500.6	6416.8	6294.1	6160.2	5970.5
42.5°	6104.4	6087.7	6065.4	6076.4	6026.3	5987.1	5886.7	5780.8	5624.4	5401.4	5172.4
45°	5446.0	5440.5	5429.2	5423.7	5390.2	5351.1	5267.3	5144.6	4971.7	4742.9	4469.4
47.5°	4804.3	4787.5	4787.5	4793.0	4754.0	4748.5	4681.4	4575.5	4424.8	4201.6	3917.0
50°	4190.4	4184.8	4196.1	4218.4	4190.4	4179.3	4134.8	4062.2	3928.3	3738.6	3470.6
52.5°	3638.0	3632.5	3643.7	3671.5	3660.3	3671.5	3627.0	3571.2	3481.8	3297.6	3063.4
55°	3096.9	3096.9	3096.9	3130.2	3130.2	3130.2	3107.9	3074.6	2990.8	2856.9	2639.4
57.5°	2533.3	2538.8	2572.3	2577.8	2572.3	2583.6	2577.8	2544.3	2488.7	2393.9	2226.4
60°	2059.0	2059.0	2075.8	2092.5	2086.8	2092.5	2092.5	2075.8	2020.0	1941.9	1808.0
62.5°	1629.3	1646.1	1634.8	1646.1	1668.3	1646.1	1634.8	1623.8	1584.7	1534.4	1422.8
65°	1233.1	1244.4	1244.4	1249.9	1238.6	1244.4	1222.1	1205.3	1183.0	1127.2	1054.7
67.5°	937.5	937.5	937.5	937.5	931.8	926.3	920.8	904.0	864.9	842.7	764.3
70°	719.8	686.3	686.3	686.3	686.3	692.0	675.2	653.0	641.7	602.7	546.8
72.5°	479.8	491.0	479.8	479.8	468.8	474.3	452.0	440.7	429.7	407.4	373.9
75°	345.9	318.1	329.1	334.9	318.1	329.1	306.8	284.6	284.6	267.8	251.0
77.5°	223.2	217.7	223.2	228.8	223.2	217.7	206.5	195.2	195.2	189.7	172.9
80°	161.9	156.2	156.2	156.2	150.7	156.2	145.2	145.2	133.9	128.4	117.1
82.5°	106.1	106.1	100.4	106.1	100.4	106.1	89.3	89.3	89.3	83.6	72.6
85°	72.6	61.3	61.3	67.1	55.8	67.1	61.3	55.8	50.3	50.3	44.6
87.5°	33.5	39.0	33.5	39.0	33.5	33.5	39.0	33.5	33.5	22.3	22.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5
2.5°	11371.7	11377.2	11377.2	11399.7	11410.8	11416.3	11416.3	11461.1	11444.3	11455.5	11466.6
5°	11210.0	11243.3	11254.6	11254.6	11315.9	11338.2	11360.5	11410.8	11416.3	11449.8	11488.8
7.5°	11053.6	11092.7	11115.2	11165.2	11204.3	11243.3	11310.4	11343.9	11377.2	11422.0	11472.1
10°	10903.0	10947.7	10992.3	11031.3	11092.7	11143.0	11187.5	11265.6	11304.9	11366.2	11433.0
12.5°	10758.0	10819.4	10858.4	10925.2	10992.3	11036.9	11103.9	11176.5	11237.8	11299.1	11377.2
15°	10629.6	10702.2	10746.8	10819.4	10891.9	10953.3	11025.8	11115.2	11159.7	11232.3	11304.9
17.5°	10490.0	10568.3	10624.1	10691.0	10780.3	10847.1	10908.7	10997.8	11053.6	11131.7	11215.5
20°	10345.1	10423.2	10490.0	10557.1	10646.4	10713.2	10785.8	10875.2	10936.5	11014.6	11081.6
22.5°	10172.1	10244.7	10317.1	10395.1	10484.5	10540.3	10624.1	10702.2	10769.1	10841.6	10908.7
25°	9948.9	10038.2	10094.1	10166.4	10239.0	10300.3	10389.6	10467.7	10523.5	10590.6	10651.9
27.5°	9686.6	9753.7	9798.2	9859.6	9932.1	9987.9	10054.8	10133.1	10188.9	10250.2	10294.8
30°	9240.1	9301.7	9340.7	9385.3	9457.9	9508.2	9564.0	9636.3	9675.4	9720.1	9759.2
32.5°	8654.2	8704.5	8726.8	8760.3	8810.6	8860.7	8905.5	8966.8	8983.6	9011.4	9011.4
35°	7806.3	7817.3	7811.8	7823.1	7845.3	7873.1	7912.2	7951.2	7973.5	7973.5	7957.0
37.5°	6813.0	6746.1	6673.6	6617.7	6601.0	6589.7	6612.2	6628.8	6651.3	6662.3	6634.5
40°	5780.8	5630.2	5468.2	5323.1	5222.7	5178.2	5161.4	5172.4	5172.4	5211.5	5211.5
42.5°	4893.6	4659.1	4419.3	4201.6	4056.5	3945.1	3894.8	3894.8	3900.3	3928.3	3945.1
45°	4157.0	3861.2	3582.2	3342.4	3141.4	2996.3	2929.5	2912.7	2907.2	2918.2	2957.2
47.5°	3593.4	3286.6	2996.3	2700.7	2488.7	2343.6	2282.2	2259.7	2237.5	2259.7	2265.5
50°	3152.7	2834.6	2527.8	2231.9	2008.7	1880.3	1802.2	1768.7	1763.2	1763.2	1774.4
52.5°	2750.8	2455.2	2148.3	1847.0	1612.5	1489.9	1417.3	1400.5	1378.3	1400.5	1400.5
55°	2371.4	2075.8	1774.4	1489.9	1294.4	1166.3	1099.2	1076.9	1065.7	1082.4	1082.4
57.5°	1958.6	1707.4	1428.6	1171.8	976.6	887.2	836.9	809.1	803.4	814.6	803.4
60°	1607.0	1395.0	1155.0	920.8	770.1	675.2	636.2	624.9	613.7	624.9	624.9
62.5°	1272.1	1093.7	898.2	719.8	591.4	524.6	479.8	479.8	474.3	474.3	479.8
65°	943.0	803.4	664.0	513.3	412.9	362.7	329.1	329.1	323.6	329.1	323.6
67.5°	686.3	591.4	479.8	373.9	295.8	267.8	245.5	228.8	240.0	228.8	223.2
70°	502.3	424.0	345.9	284.6	228.8	201.0	184.2	178.5	167.4	167.4	167.4
72.5°	334.9	284.6	234.3	184.2	150.7	122.6	117.1	106.1	94.9	100.4	111.6
75°	223.2	189.7	167.4	133.9	100.4	100.4	67.1	67.1	55.8	67.1	50.3
77.5°	156.2	128.4	100.4	83.6	67.1	61.3	44.6	44.6	39.0	39.0	39.0
80°	111.6	94.9	72.6	61.3	44.6	44.6	39.0	33.5	27.8	27.8	33.5
82.5°	67.1	50.3	50.3	44.6	27.8	22.3	16.8	22.3	11.3	11.3	11.3
85°	39.0	33.5	27.8	16.8	11.3	11.3	5.5	0.0	5.5	5.5	0.0
87.5°	22.3	11.3	11.3	5.5	0.0	5.5	5.5	0.0	0.0	0.0	11.3
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°	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5
2.5°	11494.6	11488.8	11500.1	11500.1	11533.6	11527.9	11544.7	11544.7	11533.6	11539.1	11561.4
5°	11533.6	11550.4	11583.7	11611.7	11661.8	11684.3	11712.1	11740.1	11745.6	11762.4	11779.1
7.5°	11533.6	11589.4	11628.5	11678.6	11745.6	11784.7	11846.0	11896.3	11918.6	11946.3	11979.9
10°	11511.1	11566.9	11639.5	11695.3	11779.1	11840.5	11901.8	11979.9	12013.4	12058.0	12102.8
12.5°	11466.6	11527.9	11606.0	11678.6	11773.4	11829.2	11907.3	11979.9	12030.2	12091.5	12141.8
15°	11399.7	11472.1	11544.7	11617.2	11717.6	11784.7	11857.2	11940.8	11991.1	12058.0	12102.8
17.5°	11293.6	11371.7	11438.8	11505.6	11600.5	11678.6	11745.6	11823.7	11874.0	11929.8	11991.1
20°	11165.2	11237.8	11310.4	11366.2	11461.1	11527.9	11600.5	11673.0	11712.1	11723.3	11818.2
22.5°	11003.5	11053.6	11109.4	11198.8	11254.6	11315.9	11383.0	11449.8	11488.8	11550.4	11583.7
25°	10735.5	10785.8	10847.1	10886.2	10953.3	11003.5	11070.4	11143.0	11165.2	11210.0	11243.3
27.5°	10361.8	10389.6	10417.7	10451.0	10490.0	10518.0	10557.1	10590.6	10612.9	10635.2	10657.4
30°	9770.2	9770.2	9770.2	9747.9	9764.7	9781.5	9787.0	9781.5	9781.5	9776.0	9776.0
32.5°	8989.1	8944.5	8894.2	8849.7	8832.9	8810.6	8799.4	8782.6	8754.8	8738.1	8743.6
35°	7934.5	7834.1	7772.8	7717.0	7672.4	7638.9	7622.1	7605.3	7599.8	7577.5	7555.0
37.5°	6617.7	6545.2	6500.6	6467.1	6428.0	6394.5	6400.0	6405.8	6422.3	6411.3	6416.8
40°	5222.7	5206.0	5222.7	5183.7	5172.4	5183.7	5211.5	5250.7	5273.0	5295.3	5334.3
42.5°	3972.9	4000.6	4039.9	4039.9	4056.5	4079.0	4112.3	4173.8	4207.1	4246.2	4290.9
45°	2990.8	3024.3	3074.6	3091.1	3102.4	3130.2	3169.5	3219.5	3241.8	3275.3	3314.4
47.5°	2304.5	2326.8	2354.6	2382.6	2410.4	2421.7	2460.7	2460.7	2488.7	2511.0	2522.0
50°	1796.7	1819.0	1841.3	1858.0	1869.3	1886.1	1897.1	1913.9	1919.4	1930.6	1936.1
52.5°	1406.0	1434.1	1434.1	1445.1	1461.9	1478.6	1473.1	1478.6	1484.1	1484.1	1500.9
55°	1099.2	1099.2	1116.0	1116.0	1127.2	1121.5	1127.2	1127.2	1127.2	1127.2	1132.7
57.5°	820.2	825.9	842.7	831.4	825.9	836.9	825.9	836.9	831.4	842.7	825.9
60°	630.4	630.4	636.2	636.2	641.7	641.7	641.7	636.2	636.2	630.4	630.4
62.5°	474.3	479.8	485.5	479.8	479.8	479.8	474.3	474.3	468.8	463.0	463.0
65°	318.1	312.6	323.6	312.6	318.1	318.1	312.6	318.1	301.3	306.8	301.3
67.5°	228.8	223.2	217.7	223.2	217.7	212.0	212.0	217.7	223.2	206.5	206.5
70°	150.7	156.2	150.7	156.2	161.9	161.9	156.2	150.7	156.2	145.2	150.7
72.5°	94.9	94.9	94.9	94.9	94.9	100.4	100.4	100.4	89.3	89.3	83.6
75°	44.6	61.3	50.3	44.6	61.3	61.3	55.8	55.8	50.3	50.3	50.3
77.5°	44.6	33.5	33.5	33.5	33.5	33.5	33.5	33.5	27.8	33.5	27.8
80°	22.3	22.3	22.3	16.8	22.3	22.3	27.8	22.3	22.3	16.8	27.8
82.5°	11.3	11.3	11.3	0.0	5.5	11.3	11.3	5.5	11.3	11.3	5.5
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: P248775

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5
2.5°	11555.9	11550.4	11555.9	11561.4	11555.9	11550.4	11555.9	11561.4	11539.1	11533.6	11544.7
5°	11801.4	11801.4	11812.5	11818.2	11812.5	11801.4	11801.4	11779.1	11762.4	11745.6	11740.1
7.5°	12013.4	12024.7	12035.7	12041.2	12035.7	12024.7	12013.4	11979.9	11946.3	11918.6	11896.3
10°	12141.8	12158.6	12180.8	12191.9	12180.8	12158.6	12141.8	12102.8	12058.0	12013.4	11979.9
12.5°	12197.6	12214.4	12242.2	12236.7	12242.2	12214.4	12197.6	12141.8	12091.5	12030.2	11979.9
15°	12158.6	12180.8	12208.6	12219.9	12208.6	12180.8	12158.6	12102.8	12058.0	11991.1	11940.8
17.5°	12035.7	12069.2	12086.0	12102.8	12086.0	12069.2	12035.7	11991.1	11929.8	11874.0	11823.7
20°	11868.3	11890.8	11913.0	11918.6	11913.0	11890.8	11868.3	11818.2	11723.3	11712.1	11673.0
22.5°	11628.5	11645.3	11695.3	11678.6	11695.3	11645.3	11628.5	11583.7	11550.4	11488.8	11449.8
25°	11282.4	11299.1	11304.9	11310.4	11304.9	11299.1	11282.4	11243.3	11210.0	11165.2	11143.0
27.5°	10685.5	10685.5	10696.5	10702.2	10696.5	10685.5	10685.5	10657.4	10635.2	10612.9	10590.6
30°	9781.5	9781.5	9781.5	9809.5	9781.5	9781.5	9781.5	9776.0	9776.0	9781.5	9781.5
32.5°	8738.1	8726.8	8715.8	8726.8	8715.8	8726.8	8738.1	8743.6	8738.1	8754.8	8782.6
35°	7555.0	7549.5	7566.3	7544.0	7566.3	7549.5	7555.0	7555.0	7577.5	7599.8	7605.3
37.5°	6422.3	6411.3	6433.6	6411.3	6433.6	6411.3	6422.3	6416.8	6411.3	6422.3	6405.8
40°	5345.6	5356.6	5356.6	5401.4	5356.6	5356.6	5345.6	5334.3	5295.3	5273.0	5250.7
42.5°	4313.2	4346.8	4335.5	4369.0	4335.5	4346.8	4313.2	4290.9	4246.2	4207.1	4173.8
45°	3336.7	3359.2	3359.2	3370.2	3359.2	3359.2	3336.7	3314.4	3275.3	3241.8	3219.5
47.5°	2561.1	2561.1	2561.1	2566.8	2561.1	2561.1	2561.1	2522.0	2511.0	2488.7	2460.7
50°	1947.4	1952.9	1958.6	1964.1	1958.6	1952.9	1947.4	1936.1	1930.6	1919.4	1913.9
52.5°	1495.4	1500.9	1489.9	1500.9	1489.9	1500.9	1495.4	1500.9	1484.1	1484.1	1478.6
55°	1132.7	1127.2	1132.7	1138.3	1132.7	1127.2	1132.7	1132.7	1127.2	1127.2	1127.2
57.5°	831.4	820.2	820.2	820.2	820.2	820.2	831.4	825.9	842.7	831.4	836.9
60°	619.4	624.9	624.9	630.4	624.9	624.9	619.4	630.4	630.4	636.2	636.2
62.5°	457.5	474.3	463.0	474.3	463.0	474.3	457.5	463.0	463.0	468.8	474.3
65°	295.8	295.8	295.8	301.3	295.8	295.8	295.8	301.3	306.8	301.3	318.1
67.5°	201.0	206.5	217.7	212.0	217.7	206.5	201.0	206.5	206.5	223.2	217.7
70°	161.9	145.2	145.2	161.9	145.2	145.2	161.9	150.7	145.2	156.2	150.7
72.5°	94.9	83.6	94.9	94.9	94.9	83.6	94.9	83.6	89.3	89.3	100.4
75°	50.3	44.6	39.0	55.8	39.0	44.6	50.3	50.3	50.3	50.3	55.8
77.5°	33.5	27.8	39.0	39.0	39.0	27.8	33.5	27.8	33.5	27.8	33.5
80°	16.8	22.3	16.8	27.8	16.8	22.3	16.8	27.8	16.8	22.3	22.3
82.5°	5.5	11.3	11.3	11.3	11.3	11.3	5.5	5.5	11.3	11.3	5.5
85°	0.0	11.3	5.5	5.5	5.5	11.3	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	0.0	0.0	5.5	0.0	0.0	5.5	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: P248775

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5
2.5°	11544.7	11527.9	11533.6	11500.1	11500.1	11488.8	11494.6	11466.6	11455.5	11444.3	11461.1
5°	11712.1	11684.3	11661.8	11611.7	11583.7	11550.4	11533.6	11488.8	11449.8	11416.3	11410.8
7.5°	11846.0	11784.7	11745.6	11678.6	11628.5	11589.4	11533.6	11472.1	11422.0	11377.2	11343.9
10°	11901.8	11840.5	11779.1	11695.3	11639.5	11566.9	11511.1	11433.0	11366.2	11304.9	11265.6
12.5°	11907.3	11829.2	11773.4	11678.6	11606.0	11527.9	11466.6	11377.2	11299.1	11237.8	11176.5
15°	11857.2	11784.7	11717.6	11617.2	11544.7	11472.1	11399.7	11304.9	11232.3	11159.7	11115.2
17.5°	11745.6	11678.6	11600.5	11505.6	11438.8	11371.7	11293.6	11215.5	11131.7	11053.6	10997.8
20°	11600.5	11527.9	11461.1	11366.2	11310.4	11237.8	11165.2	11081.6	11014.6	10936.5	10875.2
22.5°	11383.0	11315.9	11254.6	11198.8	11109.4	11053.6	11003.5	10908.7	10841.6	10769.1	10702.2
25°	11070.4	11003.5	10953.3	10886.2	10847.1	10785.8	10735.5	10651.9	10590.6	10523.5	10467.7
27.5°	10557.1	10518.0	10490.0	10451.0	10417.7	10389.6	10361.8	10294.8	10250.2	10188.9	10133.1
30°	9787.0	9781.5	9764.7	9747.9	9770.2	9770.2	9770.2	9759.2	9720.1	9675.4	9636.3
32.5°	8799.4	8810.6	8832.9	8849.7	8894.2	8944.5	8989.1	9011.4	9011.4	8983.6	8966.8
35°	7622.1	7638.9	7672.4	7717.0	7772.8	7834.1	7934.5	7957.0	7973.5	7973.5	7951.2
37.5°	6400.0	6394.5	6428.0	6467.1	6500.6	6545.2	6617.7	6634.5	6662.3	6651.3	6628.8
40°	5211.5	5183.7	5172.4	5183.7	5222.7	5206.0	5222.7	5211.5	5211.5	5172.4	5172.4
42.5°	4112.3	4079.0	4056.5	4039.9	4039.9	4000.6	3972.9	3945.1	3928.3	3900.3	3894.8
45°	3169.5	3130.2	3102.4	3091.1	3074.6	3024.3	2990.8	2957.2	2918.2	2907.2	2912.7
47.5°	2460.7	2421.7	2410.4	2382.6	2354.6	2326.8	2304.5	2265.5	2259.7	2237.5	2259.7
50°	1897.1	1886.1	1869.3	1858.0	1841.3	1819.0	1796.7	1774.4	1763.2	1763.2	1768.7
52.5°	1473.1	1478.6	1461.9	1445.1	1434.1	1434.1	1406.0	1400.5	1400.5	1378.3	1400.5
55°	1127.2	1121.5	1127.2	1116.0	1116.0	1099.2	1099.2	1082.4	1082.4	1065.7	1076.9
57.5°	825.9	836.9	825.9	831.4	842.7	825.9	820.2	803.4	814.6	803.4	809.1
60°	641.7	641.7	641.7	636.2	636.2	630.4	630.4	624.9	624.9	613.7	624.9
62.5°	474.3	479.8	479.8	479.8	485.5	479.8	474.3	479.8	474.3	474.3	479.8
65°	312.6	318.1	318.1	312.6	323.6	312.6	318.1	323.6	329.1	323.6	329.1
67.5°	212.0	212.0	217.7	223.2	217.7	223.2	228.8	223.2	228.8	240.0	228.8
70°	156.2	161.9	161.9	156.2	150.7	156.2	150.7	167.4	167.4	167.4	178.5
72.5°	100.4	100.4	94.9	94.9	94.9	94.9	94.9	111.6	100.4	94.9	106.1
75°	55.8	61.3	61.3	44.6	50.3	61.3	44.6	50.3	67.1	55.8	67.1
77.5°	33.5	33.5	33.5	33.5	33.5	33.5	44.6	39.0	39.0	39.0	44.6
80°	27.8	22.3	22.3	16.8	22.3	22.3	22.3	33.5	27.8	27.8	33.5
82.5°	11.3	11.3	5.5	0.0	11.3	11.3	11.3	11.3	11.3	11.3	22.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	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: P248775

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5
2.5°	11416.3	11416.3	11410.8	11399.7	11377.2	11377.2	11371.7	11354.9	11343.9	11338.2	11338.2
5°	11360.5	11338.2	11315.9	11254.6	11254.6	11243.3	11210.0	11187.5	11176.5	11148.5	11137.4
7.5°	11310.4	11243.3	11204.3	11165.2	11115.2	11092.7	11053.6	11036.9	10997.8	10970.0	10953.3
10°	11187.5	11143.0	11092.7	11031.3	10992.3	10947.7	10903.0	10869.7	10819.4	10791.3	10769.1
12.5°	11103.9	11036.9	10992.3	10925.2	10858.4	10819.4	10758.0	10719.0	10668.7	10612.9	10579.3
15°	11025.8	10953.3	10891.9	10819.4	10746.8	10702.2	10629.6	10585.1	10512.5	10456.7	10417.7
17.5°	10908.7	10847.1	10780.3	10691.0	10624.1	10568.3	10490.0	10434.4	10367.4	10294.8	10255.7
20°	10785.8	10713.2	10646.4	10557.1	10490.0	10423.2	10345.1	10283.8	10205.4	10138.6	10094.1
22.5°	10624.1	10540.3	10484.5	10395.1	10317.1	10244.7	10172.1	10099.6	10027.0	9971.2	9920.9
25°	10389.6	10300.3	10239.0	10166.4	10094.1	10038.2	9948.9	9904.3	9831.8	9781.5	9731.2
27.5°	10054.8	9987.9	9932.1	9859.6	9798.2	9753.7	9686.6	9642.1	9580.5	9535.9	9496.9
30°	9564.0	9508.2	9457.9	9385.3	9340.7	9301.7	9240.1	9201.1	9156.5	9106.2	9095.2
32.5°	8905.5	8860.7	8810.6	8760.3	8726.8	8704.5	8654.2	8632.0	8587.4	8559.4	8531.6
35°	7912.2	7873.1	7845.3	7823.1	7811.8	7817.3	7806.3	7828.6	7839.6	7834.1	7839.6
37.5°	6612.2	6589.7	6601.0	6617.7	6673.6	6746.1	6813.0	6913.3	6980.4	7047.5	7108.8
40°	5161.4	5178.2	5222.7	5323.1	5468.2	5630.2	5780.8	5970.5	6160.2	6294.1	6416.8
42.5°	3894.8	3945.1	4056.5	4201.6	4419.3	4659.1	4893.6	5172.4	5401.4	5624.4	5780.8
45°	2929.5	2996.3	3141.4	3342.4	3582.2	3861.2	4157.0	4469.4	4742.9	4971.7	5144.6
47.5°	2282.2	2343.6	2488.7	2700.7	2996.3	3286.6	3593.4	3917.0	4201.6	4424.8	4575.5
50°	1802.2	1880.3	2008.7	2231.9	2527.8	2834.6	3152.7	3470.6	3738.6	3928.3	4062.2
52.5°	1417.3	1489.9	1612.5	1847.0	2148.3	2455.2	2750.8	3063.4	3297.6	3481.8	3571.2
55°	1099.2	1166.3	1294.4	1489.9	1774.4	2075.8	2371.4	2639.4	2856.9	2990.8	3074.6
57.5°	836.9	887.2	976.6	1171.8	1428.6	1707.4	1958.6	2226.4	2393.9	2488.7	2544.3
60°	636.2	675.2	770.1	920.8	1155.0	1395.0	1607.0	1808.0	1941.9	2020.0	2075.8
62.5°	479.8	524.6	591.4	719.8	898.2	1093.7	1272.1	1422.8	1534.4	1584.7	1623.8
65°	329.1	362.7	412.9	513.3	664.0	803.4	943.0	1054.7	1127.2	1183.0	1205.3
67.5°	245.5	267.8	295.8	373.9	479.8	591.4	686.3	764.3	842.7	864.9	904.0
70°	184.2	201.0	228.8	284.6	345.9	424.0	502.3	546.8	602.7	641.7	653.0
72.5°	117.1	122.6	150.7	184.2	234.3	284.6	334.9	373.9	407.4	429.7	440.7
75°	67.1	100.4	100.4	133.9	167.4	189.7	223.2	251.0	267.8	284.6	284.6
77.5°	44.6	61.3	67.1	83.6	100.4	128.4	156.2	172.9	189.7	195.2	195.2
80°	39.0	44.6	44.6	61.3	72.6	94.9	111.6	117.1	128.4	133.9	145.2
82.5°	16.8	22.3	27.8	44.6	50.3	50.3	67.1	72.6	83.6	89.3	89.3
85°	5.5	11.3	11.3	16.8	27.8	33.5	39.0	44.6	50.3	50.3	55.8
87.5°	5.5	5.5	0.0	5.5	11.3	11.3	22.3	22.3	22.3	33.5	33.5
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: P248775

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5	11427.5
2.5°	11327.2	11332.7	11310.4	11304.9	11293.6	11299.1	11310.4
5°	11120.7	11126.2	11103.9	11081.6	11081.6	11075.9	11081.6
7.5°	10925.2	10931.0	10897.4	10886.2	10863.9	10869.7	10869.7
10°	10730.0	10730.0	10679.9	10674.2	10657.4	10651.9	10651.9
12.5°	10540.3	10523.5	10484.5	10462.2	10473.5	10439.9	10439.9
15°	10372.9	10345.1	10294.8	10278.0	10250.2	10239.0	10239.0
17.5°	10199.9	10177.7	10133.1	10099.6	10066.0	10060.5	10066.0
20°	10032.5	10010.2	9954.4	9932.1	9904.3	9904.3	9893.1
22.5°	9865.1	9842.8	9792.7	9776.0	9736.9	9736.9	9742.4
25°	9692.1	9675.4	9619.5	9608.5	9603.0	9580.5	9591.8
27.5°	9457.9	9446.6	9402.1	9385.3	9363.0	9357.5	9368.5
30°	9028.1	9011.4	8978.1	8961.3	8922.3	8927.8	8938.8
32.5°	8492.6	8470.3	8425.5	8408.7	8375.4	8364.2	8369.7
35°	7823.1	7806.3	7767.3	7767.3	7733.7	7722.5	7733.7
37.5°	7142.3	7158.9	7142.3	7158.9	7142.3	7136.6	7142.3
40°	6500.6	6561.9	6573.0	6634.5	6612.2	6645.5	6640.0
42.5°	5886.7	5987.1	6026.3	6076.4	6065.4	6087.7	6104.4
45°	5267.3	5351.1	5390.2	5423.7	5429.2	5440.5	5446.0
47.5°	4681.4	4748.5	4754.0	4793.0	4787.5	4787.5	4804.3
50°	4134.8	4179.3	4190.4	4218.4	4196.1	4184.8	4190.4
52.5°	3627.0	3671.5	3660.3	3671.5	3643.7	3632.5	3638.0
55°	3107.9	3130.2	3130.2	3130.2	3096.9	3096.9	3096.9
57.5°	2577.8	2583.6	2572.3	2577.8	2572.3	2538.8	2533.3
60°	2092.5	2092.5	2086.8	2092.5	2075.8	2059.0	2059.0
62.5°	1634.8	1646.1	1668.3	1646.1	1634.8	1646.1	1629.3
65°	1222.1	1244.4	1238.6	1249.9	1244.4	1244.4	1233.1
67.5°	920.8	926.3	931.8	937.5	937.5	937.5	937.5
70°	675.2	692.0	686.3	686.3	686.3	686.3	719.8
72.5°	452.0	474.3	468.8	479.8	479.8	491.0	479.8
75°	306.8	329.1	318.1	334.9	329.1	318.1	345.9
77.5°	206.5	217.7	223.2	228.8	223.2	217.7	223.2
80°	145.2	156.2	150.7	156.2	156.2	156.2	161.9
82.5°	89.3	106.1	100.4	106.1	100.4	106.1	106.1
85°	61.3	67.1	55.8	67.1	61.3	61.3	72.6
87.5°	39.0	33.5	33.5	39.0	33.5	39.0	33.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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