

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: P248622

Luminaire Tested: **LD8B200D010 ER8B200940 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248622  
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 ER8B200940 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19265.0 lumens  
Efficiency: N/A  
Efficacy: 86.3 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

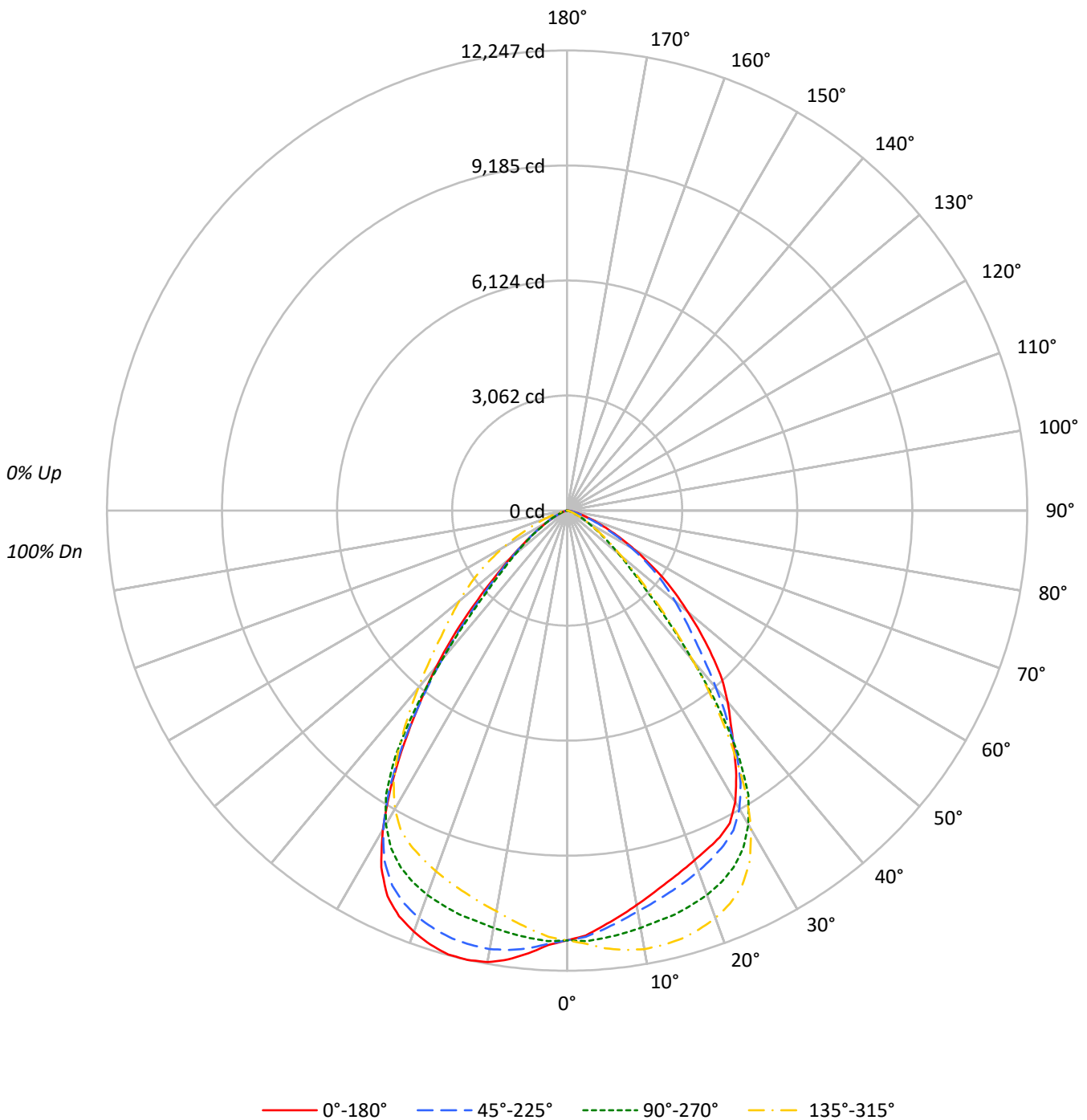
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°	270°
0°	352675	352675	352675	352675
5°	343306	353502	366125	353502
10°	333811	353043	382069	353043
15°	327142	355136	390432	355136
20°	324914	357169	391438	357169
25°	326621	356450	385146	356450
30°	318545	343402	349572	343402
35°	291370	299565	284225	299565
40°	267508	208383	217609	208383
45°	237692	127125	147094	127125
50°	201188	84921	94305	84921
55°	166634	57944	61245	57944
60°	127089	38576	38915	38576
65°	90046	24035	22006	24035
70°	64951	16102	14615	16102
75°	41247	7994	6660	7994
80°	28786	5967	4937	5967
85°	25686	0	1946	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1088.6	5.7
10°-20°	3152.3	16.4
20°-30°	4773.3	24.8
30°-40°	4784.0	24.8
40°-50°	3004.1	15.6
50°-60°	1600.9	8.3
60°-70°	658.3	3.4
70°-80°	173.9	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°	9014.3	46.8
0°-40°	13798.3	71.6
0°-60°	18403.4	95.5
0°-90°	19265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19265.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	11437	11437	11437	11437	11437	
5°	11091	11420	11828	11420	11091	###
15°	10248	11124	12230	11124	10248	2898
25°	9600	10476	11320	10476	9600	4403
35°	7740	7958	7550	7958	7740	4849
45°	5450	2915	3373	2915	5450	4192
55°	3100	1078	1139	1078	3100	2763
65°	1234	329	302	329	1234	1280
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°	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0
2.5°	11319.8	11308.5	11303.0	11314.3	11319.8	11342.1	11336.6	11347.6	11347.6	11353.4	11364.4
5°	11090.8	11085.1	11090.8	11090.8	11113.1	11135.4	11129.9	11146.7	11157.7	11185.8	11196.8
7.5°	10878.7	10878.7	10872.9	10895.2	10906.5	10940.1	10934.3	10962.4	10979.1	11006.9	11046.0
10°	10660.8	10660.8	10666.3	10683.1	10688.8	10738.9	10738.9	10778.0	10800.3	10828.3	10878.7
12.5°	10448.6	10448.6	10482.2	10470.9	10493.2	10532.3	10549.1	10588.1	10621.7	10677.6	10727.9
15°	10247.5	10247.5	10258.7	10286.6	10303.3	10353.7	10381.5	10426.3	10465.4	10521.2	10593.9
17.5°	10074.4	10068.9	10074.4	10108.0	10141.5	10186.1	10208.4	10264.3	10303.3	10376.0	10443.1
20°	9901.3	9912.6	9912.6	9940.4	9962.7	10018.5	10040.8	10102.4	10147.0	10213.9	10292.3
22.5°	9750.5	9745.0	9745.0	9784.1	9800.9	9851.0	9873.3	9929.1	9979.5	10035.3	10108.0
25°	9599.7	9588.5	9611.0	9616.5	9627.5	9683.4	9700.2	9739.3	9789.6	9839.9	9912.6
27.5°	9376.3	9365.3	9370.8	9393.1	9409.9	9454.5	9465.7	9504.8	9543.9	9588.5	9650.1
30°	8946.2	8935.2	8929.7	8968.8	8985.5	9018.9	9035.7	9102.8	9113.8	9164.1	9208.7
32.5°	8376.6	8371.1	8382.4	8415.7	8432.5	8477.3	8499.6	8538.7	8566.5	8594.5	8639.1
35°	7740.1	7728.9	7740.1	7773.7	7773.7	7812.8	7829.6	7846.1	7840.6	7846.1	7835.1
37.5°	7148.3	7142.5	7148.3	7164.8	7148.3	7164.8	7148.3	7114.7	7053.3	6986.2	6919.1
40°	6645.5	6651.1	6617.7	6640.0	6578.4	6567.4	6506.0	6422.1	6299.4	6165.4	5975.5
42.5°	6109.5	6092.7	6070.4	6081.5	6031.4	5992.0	5891.6	5785.6	5629.1	5405.9	5176.7
45°	5450.5	5445.0	5433.7	5428.2	5394.6	5355.6	5271.7	5148.9	4975.8	4746.9	4473.1
47.5°	4808.3	4791.5	4791.5	4797.0	4757.9	4752.4	4685.3	4579.3	4428.5	4205.1	3920.3
50°	4193.8	4188.3	4199.6	4221.9	4193.8	4182.8	4138.2	4065.6	3931.6	3741.7	3473.4
52.5°	3641.0	3635.5	3646.8	3674.6	3663.3	3674.6	3630.0	3574.1	3484.7	3300.4	3065.9
55°	3099.5	3099.5	3099.5	3132.8	3132.8	3132.8	3110.5	3077.2	2993.3	2859.3	2641.6
57.5°	2535.4	2540.9	2574.5	2580.0	2574.5	2585.7	2580.0	2546.4	2490.8	2395.9	2228.3
60°	2060.7	2060.7	2077.5	2094.3	2088.5	2094.3	2094.3	2077.5	2021.6	1943.5	1809.5
62.5°	1630.6	1647.4	1636.2	1647.4	1669.7	1647.4	1636.2	1625.1	1586.0	1535.7	1424.0
65°	1234.1	1245.4	1245.4	1250.9	1239.6	1245.4	1223.1	1206.3	1184.0	1128.2	1055.5
67.5°	938.3	938.3	938.3	938.3	932.6	927.0	921.5	904.7	865.7	843.4	765.0
70°	720.4	686.8	686.8	686.8	686.8	692.6	675.8	653.5	642.2	603.2	547.3
72.5°	480.2	491.4	480.2	480.2	469.1	474.7	452.4	441.1	430.1	407.8	374.2
75°	346.2	318.4	329.4	335.1	318.4	329.4	307.1	284.8	284.8	268.0	251.2
77.5°	223.4	217.9	223.4	228.9	223.4	217.9	206.6	195.4	195.4	189.9	173.1
80°	162.1	156.3	156.3	156.3	150.8	156.3	145.3	145.3	134.0	128.5	117.2
82.5°	106.2	106.2	100.4	106.2	100.4	106.2	89.4	89.4	89.4	83.7	72.6
85°	72.6	61.4	61.4	67.1	55.9	67.1	61.4	55.9	50.3	50.3	44.6
87.5°	33.6	39.1	33.6	39.1	33.6	33.6	39.1	33.6	33.6	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°	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0
2.5°	11381.2	11386.7	11386.7	11409.2	11420.2	11425.8	11425.8	11470.6	11453.8	11465.1	11476.1
5°	11219.3	11252.7	11263.9	11263.9	11325.3	11347.6	11369.9	11420.2	11425.8	11459.3	11498.4
7.5°	11062.8	11101.9	11124.4	11174.5	11213.6	11252.7	11319.8	11353.4	11386.7	11431.5	11481.6
10°	10912.0	10956.8	11001.4	11040.5	11101.9	11152.2	11196.8	11275.0	11314.3	11375.6	11442.5
12.5°	10767.0	10828.3	10867.4	10934.3	11001.4	11046.0	11113.1	11185.8	11247.2	11308.5	11386.7
15°	10638.5	10711.1	10755.7	10828.3	10901.0	10962.4	11035.0	11124.4	11169.0	11241.6	11314.3
17.5°	10498.7	10577.1	10633.0	10699.9	10789.3	10856.2	10917.8	11006.9	11062.8	11141.0	11224.9
20°	10353.7	10431.8	10498.7	10565.8	10655.3	10722.1	10794.8	10884.2	10945.6	11023.7	11090.8
22.5°	10180.6	10253.2	10325.6	10403.8	10493.2	10549.1	10633.0	10711.1	10778.0	10850.6	10917.8
25°	9957.2	10046.6	10102.4	10174.8	10247.5	10308.9	10398.3	10476.4	10532.3	10599.4	10660.8
27.5°	9694.7	9761.8	9806.4	9867.8	9940.4	9996.2	10063.1	10141.5	10197.4	10258.7	10303.3
30°	9247.8	9309.4	9348.5	9393.1	9465.7	9516.1	9571.9	9644.3	9683.4	9728.2	9767.3
32.5°	8661.4	8711.8	8734.1	8767.6	8818.0	8868.1	8912.9	8974.3	8991.1	9018.9	9018.9
35°	7812.8	7823.8	7818.3	7829.6	7851.9	7879.7	7918.8	7957.8	7980.1	7980.1	7963.6
37.5°	6818.6	6751.7	6679.1	6623.2	6606.5	6595.2	6617.7	6634.3	6656.8	6667.8	6640.0
40°	5785.6	5634.8	5472.8	5327.5	5227.1	5182.5	5165.7	5176.7	5176.7	5215.8	5215.8
42.5°	4897.7	4663.0	4423.0	4205.1	4059.8	3948.3	3898.0	3898.0	3903.5	3931.6	3948.3
45°	4160.5	3864.4	3585.2	3345.2	3144.1	2998.8	2931.9	2915.1	2909.6	2920.6	2959.7
47.5°	3596.4	3289.3	2998.8	2702.9	2490.8	2345.5	2284.1	2261.6	2239.3	2261.6	2267.4
50°	3155.3	2837.0	2529.9	2233.8	2010.4	1881.9	1803.7	1770.2	1764.7	1764.7	1775.9
52.5°	2753.1	2457.2	2150.1	1848.6	1613.9	1491.1	1418.5	1401.7	1379.4	1401.7	1401.7
55°	2373.3	2077.5	1775.9	1491.1	1295.5	1167.2	1100.1	1077.8	1066.6	1083.3	1083.3
57.5°	1960.3	1708.8	1429.7	1172.8	977.4	888.0	837.6	809.8	804.1	815.3	804.1
60°	1608.3	1396.2	1156.0	921.5	770.7	675.8	636.7	625.5	614.2	625.5	625.5
62.5°	1273.2	1094.6	899.0	720.4	591.9	525.0	480.2	480.2	474.7	474.7	480.2
65°	943.8	804.1	664.5	513.7	413.3	363.0	329.4	329.4	323.9	329.4	323.9
67.5°	686.8	591.9	480.2	374.2	296.1	268.0	245.7	228.9	240.2	228.9	223.4
70°	502.7	424.3	346.2	284.8	228.9	201.1	184.3	178.6	167.6	167.6	167.6
72.5°	335.1	284.8	234.5	184.3	150.8	122.7	117.2	106.2	94.9	100.4	111.7
75°	223.4	189.9	167.6	134.0	100.4	100.4	67.1	67.1	55.9	67.1	50.3
77.5°	156.3	128.5	100.4	83.7	67.1	61.4	44.6	44.6	39.1	39.1	39.1
80°	111.7	94.9	72.6	61.4	44.6	44.6	39.1	33.6	27.8	27.8	33.6
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°	39.1	33.6	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°	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0
2.5°	11504.1	11498.4	11509.7	11509.7	11543.2	11537.5	11554.3	11554.3	11543.2	11548.7	11571.0
5°	11543.2	11560.0	11593.3	11621.4	11671.5	11694.0	11721.8	11749.9	11755.4	11772.2	11788.9
7.5°	11543.2	11599.1	11638.1	11688.3	11755.4	11794.5	11855.8	11906.2	11928.5	11956.3	11989.8
10°	11520.7	11576.5	11649.2	11705.0	11788.9	11850.3	11911.7	11989.8	12023.4	12068.0	12112.8
12.5°	11476.1	11537.5	11615.6	11688.3	11783.2	11839.0	11917.2	11989.8	12040.2	12101.6	12151.9
15°	11409.2	11481.6	11554.3	11626.9	11727.3	11794.5	11867.1	11950.8	12001.1	12068.0	12112.8
17.5°	11303.0	11381.2	11448.3	11515.2	11610.1	11688.3	11755.4	11833.5	11883.9	11939.7	12001.1
20°	11174.5	11247.2	11319.8	11375.6	11470.6	11537.5	11610.1	11682.7	11721.8	11733.1	11828.0
22.5°	11012.7	11062.8	11118.7	11208.1	11263.9	11325.3	11392.4	11459.3	11498.4	11560.0	11593.3
25°	10744.4	10794.8	10856.2	10895.2	10962.4	11012.7	11079.6	11152.2	11174.5	11219.3	11252.7
27.5°	10370.5	10398.3	10426.3	10459.6	10498.7	10526.8	10565.8	10599.4	10621.7	10644.0	10666.3
30°	9778.3	9778.3	9778.3	9756.0	9772.8	9789.6	9795.1	9789.6	9789.6	9784.1	9784.1
32.5°	8996.6	8952.0	8901.6	8857.0	8840.3	8818.0	8806.7	8789.9	8762.1	8745.3	8750.9
35°	7941.0	7840.6	7779.2	7723.4	7678.8	7645.2	7628.4	7611.7	7606.1	7583.8	7561.3
37.5°	6623.2	6550.6	6506.0	6472.5	6433.4	6399.8	6405.3	6411.1	6427.6	6416.6	6422.1
40°	5227.1	5210.3	5227.1	5188.0	5176.7	5188.0	5215.8	5255.1	5277.4	5299.7	5338.8
42.5°	3976.2	4004.0	4043.3	4043.3	4059.8	4082.4	4115.7	4177.3	4210.6	4249.7	4294.5
45°	2993.3	3026.8	3077.2	3093.7	3105.0	3132.8	3172.1	3222.2	3244.5	3278.1	3317.1
47.5°	2306.4	2328.7	2356.5	2384.6	2412.4	2423.7	2462.7	2462.7	2490.8	2513.1	2524.1
50°	1798.2	1820.5	1842.8	1859.6	1870.8	1887.6	1898.7	1915.4	1921.0	1932.2	1937.7
52.5°	1407.2	1435.3	1435.3	1446.3	1463.1	1479.9	1474.3	1479.9	1485.4	1485.4	1502.1
55°	1100.1	1100.1	1116.9	1116.9	1128.2	1122.4	1128.2	1128.2	1128.2	1128.2	1133.7
57.5°	820.8	826.6	843.4	832.1	826.6	837.6	826.6	837.6	832.1	843.4	826.6
60°	631.0	631.0	636.7	636.7	642.2	642.2	642.2	636.7	636.7	631.0	631.0
62.5°	474.7	480.2	485.9	480.2	480.2	480.2	474.7	474.7	469.1	463.4	463.4
65°	318.4	312.8	323.9	312.8	318.4	318.4	312.8	318.4	301.6	307.1	301.6
67.5°	228.9	223.4	217.9	223.4	217.9	212.2	212.2	217.9	223.4	206.6	206.6
70°	150.8	156.3	150.8	156.3	162.1	162.1	156.3	150.8	156.3	145.3	150.8
72.5°	94.9	94.9	94.9	94.9	94.9	100.4	100.4	100.4	89.4	89.4	83.7
75°	44.6	61.4	50.3	44.6	61.4	61.4	55.9	55.9	50.3	50.3	50.3
77.5°	44.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	27.8	33.6	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: P248622

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0
2.5°	11565.5	11560.0	11565.5	11571.0	11565.5	11560.0	11565.5	11571.0	11548.7	11543.2	11554.3
5°	11811.2	11811.2	11822.3	11828.0	11822.3	11811.2	11811.2	11788.9	11772.2	11755.4	11749.9
7.5°	12023.4	12034.7	12045.7	12051.2	12045.7	12034.7	12023.4	11989.8	11956.3	11928.5	11906.2
10°	12151.9	12168.7	12191.0	12202.0	12191.0	12168.7	12151.9	12112.8	12068.0	12023.4	11989.8
12.5°	12207.7	12224.5	12252.3	12246.8	12252.3	12224.5	12207.7	12151.9	12101.6	12040.2	11989.8
15°	12168.7	12191.0	12218.8	12230.0	12218.8	12191.0	12168.7	12112.8	12068.0	12001.1	11950.8
17.5°	12045.7	12079.3	12096.0	12112.8	12096.0	12079.3	12045.7	12001.1	11939.7	11883.9	11833.5
20°	11878.1	11900.7	11922.9	11928.5	11922.9	11900.7	11878.1	11828.0	11733.1	11721.8	11682.7
22.5°	11638.1	11654.9	11705.0	11688.3	11705.0	11654.9	11638.1	11593.3	11560.0	11498.4	11459.3
25°	11291.7	11308.5	11314.3	11319.8	11314.3	11308.5	11291.7	11252.7	11219.3	11174.5	11152.2
27.5°	10694.3	10694.3	10705.4	10711.1	10705.4	10694.3	10694.3	10666.3	10644.0	10621.7	10599.4
30°	9789.6	9789.6	9789.6	9817.6	9789.6	9789.6	9789.6	9789.6	9784.1	9784.1	9789.6
32.5°	8745.3	8734.1	8723.0	8734.1	8723.0	8734.1	8745.3	8750.9	8745.3	8762.1	8789.9
35°	7561.3	7555.8	7572.6	7550.3	7572.6	7555.8	7561.3	7561.3	7583.8	7606.1	7611.7
37.5°	6427.6	6416.6	6438.9	6416.6	6438.9	6416.6	6427.6	6422.1	6416.6	6427.6	6411.1
40°	5350.0	5361.1	5361.1	5405.9	5361.1	5361.1	5350.0	5338.8	5299.7	5277.4	5255.1
42.5°	4316.8	4350.4	4339.1	4372.7	4339.1	4350.4	4316.8	4294.5	4249.7	4210.6	4177.3
45°	3339.4	3362.0	3362.0	3373.0	3362.0	3362.0	3339.4	3317.1	3278.1	3244.5	3222.2
47.5°	2563.2	2563.2	2563.2	2568.9	2563.2	2563.2	2563.2	2524.1	2513.1	2490.8	2462.7
50°	1949.0	1954.5	1960.3	1965.8	1960.3	1954.5	1949.0	1937.7	1932.2	1921.0	1915.4
52.5°	1496.6	1502.1	1491.1	1502.1	1491.1	1502.1	1496.6	1502.1	1485.4	1485.4	1479.9
55°	1133.7	1128.2	1133.7	1139.2	1133.7	1128.2	1133.7	1133.7	1128.2	1128.2	1128.2
57.5°	832.1	820.8	820.8	820.8	820.8	820.8	832.1	826.6	843.4	832.1	837.6
60°	619.9	625.5	625.5	631.0	625.5	625.5	619.9	631.0	631.0	636.7	636.7
62.5°	457.9	474.7	463.4	474.7	463.4	474.7	457.9	463.4	463.4	469.1	474.7
65°	296.1	296.1	296.1	301.6	296.1	296.1	296.1	301.6	307.1	301.6	318.4
67.5°	201.1	206.6	217.9	212.2	217.9	206.6	201.1	206.6	206.6	223.4	217.9
70°	162.1	145.3	145.3	162.1	145.3	145.3	162.1	150.8	145.3	156.3	150.8
72.5°	94.9	83.7	94.9	94.9	94.9	83.7	94.9	83.7	89.4	89.4	100.4
75°	50.3	44.6	39.1	55.9	39.1	44.6	50.3	50.3	50.3	50.3	55.9
77.5°	33.6	27.8	39.1	39.1	39.1	27.8	33.6	27.8	33.6	27.8	33.6
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: P248622

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0
2.5°	11554.3	11537.5	11543.2	11509.7	11509.7	11498.4	11504.1	11476.1	11465.1	11453.8	11470.6
5°	11721.8	11694.0	11671.5	11621.4	11593.3	11560.0	11543.2	11498.4	11459.3	11425.8	11420.2
7.5°	11855.8	11794.5	11755.4	11688.3	11638.1	11599.1	11543.2	11481.6	11431.5	11386.7	11353.4
10°	11911.7	11850.3	11788.9	11705.0	11649.2	11576.5	11520.7	11442.5	11375.6	11314.3	11275.0
12.5°	11917.2	11839.0	11783.2	11688.3	11615.6	11537.5	11476.1	11386.7	11308.5	11247.2	11185.8
15°	11867.1	11794.5	11727.3	11626.9	11554.3	11481.6	11409.2	11314.3	11241.6	11169.0	11124.4
17.5°	11755.4	11688.3	11610.1	11515.2	11448.3	11381.2	11303.0	11224.9	11141.0	11062.8	11006.9
20°	11610.1	11537.5	11470.6	11375.6	11319.8	11247.2	11174.5	11090.8	11023.7	10945.6	10884.2
22.5°	11392.4	11325.3	11263.9	11208.1	11118.7	11062.8	11012.7	10917.8	10850.6	10778.0	10711.1
25°	11079.6	11012.7	10962.4	10895.2	10856.2	10794.8	10744.4	10660.8	10599.4	10532.3	10476.4
27.5°	10565.8	10526.8	10498.7	10459.6	10426.3	10398.3	10370.5	10303.3	10258.7	10197.4	10141.5
30°	9795.1	9789.6	9772.8	9756.0	9778.3	9778.3	9778.3	9767.3	9728.2	9683.4	9644.3
32.5°	8806.7	8818.0	8840.3	8857.0	8901.6	8952.0	8996.6	9018.9	9018.9	8991.1	8974.3
35°	7628.4	7645.2	7678.8	7723.4	7779.2	7840.6	7941.0	7963.6	7980.1	7980.1	7957.8
37.5°	6405.3	6399.8	6433.4	6472.5	6506.0	6550.6	6623.2	6640.0	6667.8	6656.8	6634.3
40°	5215.8	5188.0	5176.7	5188.0	5227.1	5210.3	5227.1	5215.8	5215.8	5176.7	5176.7
42.5°	4115.7	4082.4	4059.8	4043.3	4043.3	4004.0	3976.2	3948.3	3931.6	3903.5	3898.0
45°	3172.1	3132.8	3105.0	3093.7	3077.2	3026.8	2993.3	2959.7	2920.6	2909.6	2915.1
47.5°	2462.7	2423.7	2412.4	2384.6	2356.5	2328.7	2306.4	2267.4	2261.6	2239.3	2261.6
50°	1898.7	1887.6	1870.8	1859.6	1842.8	1820.5	1798.2	1775.9	1764.7	1764.7	1770.2
52.5°	1474.3	1479.9	1463.1	1446.3	1435.3	1435.3	1407.2	1401.7	1401.7	1379.4	1401.7
55°	1128.2	1122.4	1128.2	1116.9	1116.9	1100.1	1100.1	1083.3	1083.3	1066.6	1077.8
57.5°	826.6	837.6	826.6	832.1	843.4	826.6	820.8	804.1	815.3	804.1	809.8
60°	642.2	642.2	642.2	636.7	636.7	631.0	631.0	625.5	625.5	614.2	625.5
62.5°	474.7	480.2	480.2	480.2	485.9	480.2	474.7	480.2	474.7	474.7	480.2
65°	312.8	318.4	318.4	312.8	323.9	312.8	318.4	323.9	329.4	323.9	329.4
67.5°	212.2	212.2	217.9	223.4	217.9	223.4	228.9	223.4	228.9	240.2	228.9
70°	156.3	162.1	162.1	156.3	150.8	156.3	150.8	167.6	167.6	167.6	178.6
72.5°	100.4	100.4	94.9	94.9	94.9	94.9	94.9	111.7	100.4	94.9	106.2
75°	55.9	61.4	61.4	44.6	50.3	61.4	44.6	50.3	67.1	55.9	67.1
77.5°	33.6	33.6	33.6	33.6	33.6	33.6	44.6	39.1	39.1	39.1	44.6
80°	27.8	22.3	22.3	16.8	22.3	22.3	22.3	33.6	27.8	27.8	33.6
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: P248622

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0
2.5°	11425.8	11425.8	11420.2	11409.2	11386.7	11386.7	11381.2	11364.4	11353.4	11347.6	11347.6
5°	11369.9	11347.6	11325.3	11263.9	11263.9	11252.7	11219.3	11196.8	11185.8	11157.7	11146.7
7.5°	11319.8	11252.7	11213.6	11174.5	11124.4	11101.9	11062.8	11046.0	11006.9	10979.1	10962.4
10°	11196.8	11152.2	11101.9	11040.5	11001.4	10956.8	10912.0	10878.7	10828.3	10800.3	10778.0
12.5°	11113.1	11046.0	11001.4	10934.3	10867.4	10828.3	10767.0	10727.9	10677.6	10621.7	10588.1
15°	11035.0	10962.4	10901.0	10828.3	10755.7	10711.1	10638.5	10593.9	10521.2	10465.4	10426.3
17.5°	10917.8	10856.2	10789.3	10699.9	10633.0	10577.1	10498.7	10443.1	10376.0	10303.3	10264.3
20°	10794.8	10722.1	10655.3	10565.8	10498.7	10431.8	10353.7	10292.3	10213.9	10147.0	10102.4
22.5°	10633.0	10549.1	10493.2	10403.8	10325.6	10253.2	10180.6	10108.0	10035.3	9979.5	9929.1
25°	10398.3	10308.9	10247.5	10174.8	10102.4	10046.6	9957.2	9912.6	9839.9	9789.6	9739.3
27.5°	10063.1	9996.2	9940.4	9867.8	9806.4	9761.8	9694.7	9650.1	9588.5	9543.9	9504.8
30°	9571.9	9516.1	9465.7	9393.1	9348.5	9309.4	9247.8	9208.7	9164.1	9113.8	9102.8
32.5°	8912.9	8868.1	8818.0	8767.6	8734.1	8711.8	8661.4	8639.1	8594.5	8566.5	8538.7
35°	7918.8	7879.7	7851.9	7829.6	7818.3	7823.8	7812.8	7835.1	7846.1	7840.6	7846.1
37.5°	6617.7	6595.2	6606.5	6623.2	6679.1	6751.7	6818.6	6919.1	6986.2	7053.3	7114.7
40°	5165.7	5182.5	5227.1	5327.5	5472.8	5634.8	5785.6	5975.5	6165.4	6299.4	6422.1
42.5°	3898.0	3948.3	4059.8	4205.1	4423.0	4663.0	4897.7	5176.7	5405.9	5629.1	5785.6
45°	2931.9	2998.8	3144.1	3345.2	3585.2	3864.4	4160.5	4473.1	4746.9	4975.8	5148.9
47.5°	2284.1	2345.5	2490.8	2702.9	2998.8	3289.3	3596.4	3920.3	4205.1	4428.5	4579.3
50°	1803.7	1881.9	2010.4	2233.8	2529.9	2837.0	3155.3	3473.4	3741.7	3931.6	4065.6
52.5°	1418.5	1491.1	1613.9	1848.6	2150.1	2457.2	2753.1	3065.9	3300.4	3484.7	3574.1
55°	1100.1	1167.2	1295.5	1491.1	1775.9	2077.5	2373.3	2641.6	2859.3	2993.3	3077.2
57.5°	837.6	888.0	977.4	1172.8	1429.7	1708.8	1960.3	2228.3	2395.9	2490.8	2546.4
60°	636.7	675.8	770.7	921.5	1156.0	1396.2	1608.3	1809.5	1943.5	2021.6	2077.5
62.5°	480.2	525.0	591.9	720.4	899.0	1094.6	1273.2	1424.0	1535.7	1586.0	1625.1
65°	329.4	363.0	413.3	513.7	664.5	804.1	943.8	1055.5	1128.2	1184.0	1206.3
67.5°	245.7	268.0	296.1	374.2	480.2	591.9	686.8	765.0	843.4	865.7	904.7
70°	184.3	201.1	228.9	284.8	346.2	424.3	502.7	547.3	603.2	642.2	653.5
72.5°	117.2	122.7	150.8	184.3	234.5	284.8	335.1	374.2	407.8	430.1	441.1
75°	67.1	100.4	100.4	134.0	167.6	189.9	223.4	251.2	268.0	284.8	284.8
77.5°	44.6	61.4	67.1	83.7	100.4	128.5	156.3	173.1	189.9	195.4	195.4
80°	39.1	44.6	44.6	61.4	72.6	94.9	111.7	117.2	128.5	134.0	145.3
82.5°	16.8	22.3	27.8	44.6	50.3	50.3	67.1	72.6	83.7	89.4	89.4
85°	5.5	11.3	11.3	16.8	27.8	33.6	39.1	44.6	50.3	50.3	55.9
87.5°	5.5	5.5	0.0	5.5	11.3	11.3	22.3	22.3	22.3	33.6	33.6
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: P248622

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0	11437.0
2.5°	11336.6	11342.1	11319.8	11314.3	11303.0	11308.5	11319.8
5°	11129.9	11135.4	11113.1	11090.8	11090.8	11085.1	11090.8
7.5°	10934.3	10940.1	10906.5	10895.2	10872.9	10878.7	10878.7
10°	10738.9	10738.9	10688.8	10683.1	10666.3	10660.8	10660.8
12.5°	10549.1	10532.3	10493.2	10470.9	10482.2	10448.6	10448.6
15°	10381.5	10353.7	10303.3	10286.6	10258.7	10247.5	10247.5
17.5°	10208.4	10186.1	10141.5	10108.0	10074.4	10068.9	10074.4
20°	10040.8	10018.5	9962.7	9940.4	9912.6	9912.6	9901.3
22.5°	9873.3	9851.0	9800.9	9784.1	9745.0	9745.0	9750.5
25°	9700.2	9683.4	9627.5	9616.5	9611.0	9588.5	9599.7
27.5°	9465.7	9454.5	9409.9	9393.1	9370.8	9365.3	9376.3
30°	9035.7	9018.9	8985.5	8968.8	8929.7	8935.2	8946.2
32.5°	8499.6	8477.3	8432.5	8415.7	8382.4	8371.1	8376.6
35°	7829.6	7812.8	7773.7	7773.7	7740.1	7728.9	7740.1
37.5°	7148.3	7164.8	7148.3	7164.8	7148.3	7142.5	7148.3
40°	6506.0	6567.4	6578.4	6640.0	6617.7	6651.1	6645.5
42.5°	5891.6	5992.0	6031.4	6081.5	6070.4	6092.7	6109.5
45°	5271.7	5355.6	5394.6	5428.2	5433.7	5445.0	5450.5
47.5°	4685.3	4752.4	4757.9	4797.0	4791.5	4791.5	4808.3
50°	4138.2	4182.8	4193.8	4221.9	4199.6	4188.3	4193.8
52.5°	3630.0	3674.6	3663.3	3674.6	3646.8	3635.5	3641.0
55°	3110.5	3132.8	3132.8	3132.8	3099.5	3099.5	3099.5
57.5°	2580.0	2585.7	2574.5	2580.0	2574.5	2540.9	2535.4
60°	2094.3	2094.3	2088.5	2094.3	2077.5	2060.7	2060.7
62.5°	1636.2	1647.4	1669.7	1647.4	1636.2	1647.4	1630.6
65°	1223.1	1245.4	1239.6	1250.9	1245.4	1245.4	1234.1
67.5°	921.5	927.0	932.6	938.3	938.3	938.3	938.3
70°	675.8	692.6	686.8	686.8	686.8	686.8	720.4
72.5°	452.4	474.7	469.1	480.2	480.2	491.4	480.2
75°	307.1	329.4	318.4	335.1	329.4	318.4	346.2
77.5°	206.6	217.9	223.4	228.9	223.4	217.9	223.4
80°	145.3	156.3	150.8	156.3	156.3	156.3	162.1
82.5°	89.4	106.2	100.4	106.2	100.4	106.2	106.2
85°	61.4	67.1	55.9	67.1	61.4	61.4	72.6
87.5°	39.1	33.6	33.6	39.1	33.6	39.1	33.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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