

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: P248640

Luminaire Tested: **LD8B200D010 ER8B200927 8LBSW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248640  
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 ER8B200927 8LBSW0H  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16942.5 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

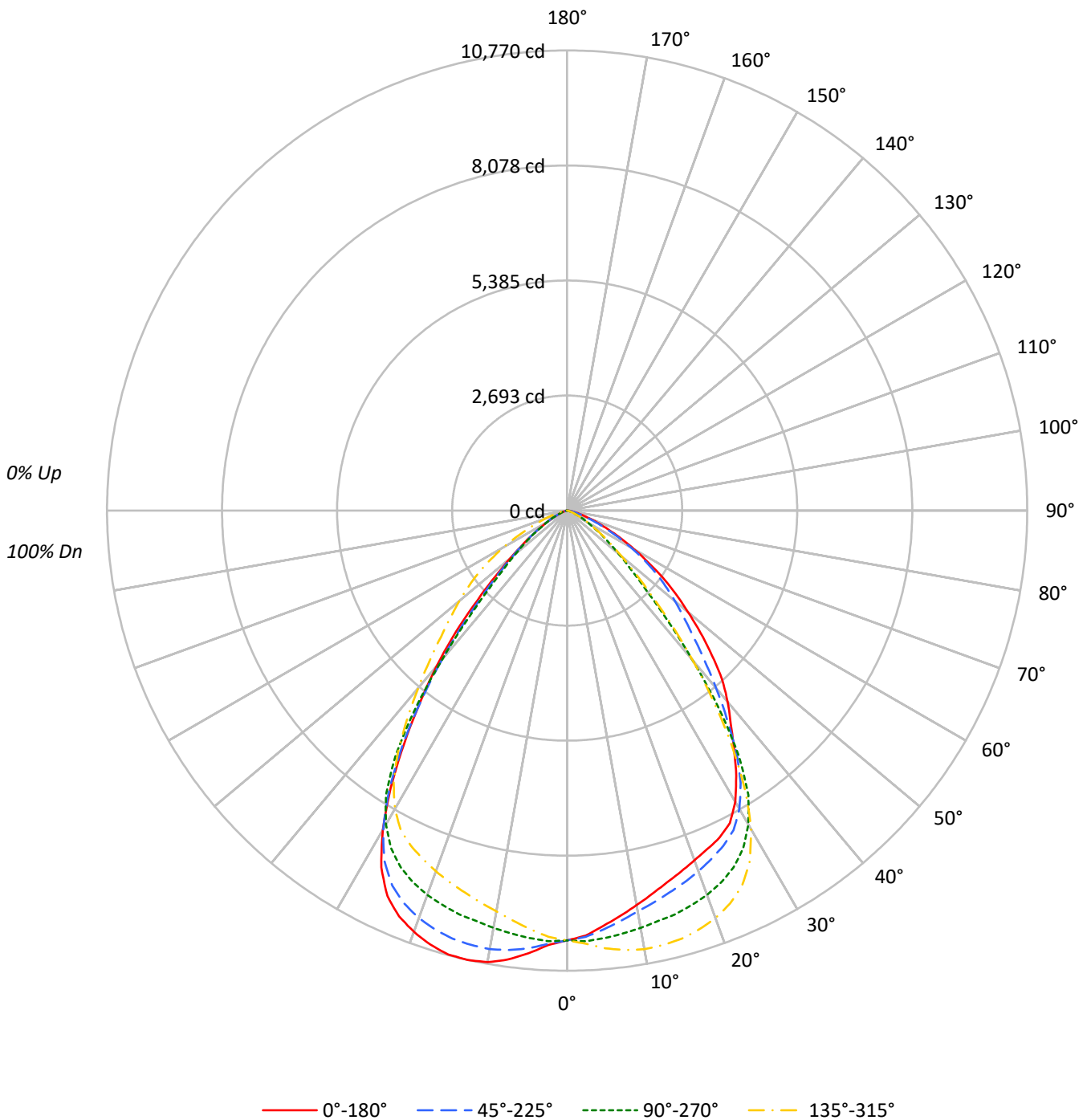
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	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°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	957.4	5.7
10°-20°	2772.3	16.4
20°-30°	4197.9	24.8
30°-40°	4207.3	24.8
40°-50°	2642.0	15.6
50°-60°	1407.9	8.3
60°-70°	579.0	3.4
70°-80°	153.0	0.9
80°-90°	25.9	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°	7927.5	46.8
0°-40°	12134.9	71.6
0°-60°	16184.7	95.5
0°-90°	16942.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16942.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	10058	10058	10058	10058	10058	
5°	9754	10043	10402	10043	9754	920
15°	9012	9783	10756	9783	9012	2549
25°	8442	9213	9955	9213	8442	3872
35°	6807	6998	6640	6998	6807	4265
45°	4793	2564	2966	2564	4793	3687
55°	2726	948	1002	948	2726	2430
65°	1085	290	265	290	1085	1126
75°	304	59	49	59	304	345
85°	64	0	5	0	64	70
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°	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2
2.5°	9955.1	9945.2	9940.4	9950.3	9955.1	9974.7	9969.9	9979.5	9979.5	9984.6	9994.4
5°	9753.8	9748.7	9753.8	9753.8	9773.4	9793.0	9788.2	9802.9	9812.6	9837.2	9847.0
7.5°	9567.2	9567.2	9562.2	9581.7	9591.6	9621.2	9616.2	9640.8	9655.5	9679.9	9714.4
10°	9375.5	9375.5	9380.4	9395.2	9400.3	9444.3	9444.3	9478.7	9498.3	9522.9	9567.2
12.5°	9189.0	9189.0	9218.5	9208.6	9228.2	9262.6	9277.3	9311.7	9341.2	9390.4	9434.6
15°	9012.2	9012.2	9022.1	9046.5	9061.2	9105.5	9129.9	9169.3	9203.7	9252.9	9316.7
17.5°	8859.8	8855.0	8859.8	8889.4	8918.9	8958.2	8977.7	9026.9	9061.2	9125.1	9184.2
20°	8707.6	8717.5	8717.5	8742.0	8761.6	8810.8	8830.4	8884.6	8923.7	8982.6	9051.5
22.5°	8575.1	8570.1	8570.1	8604.6	8619.3	8663.4	8683.0	8732.1	8776.4	8825.5	8889.4
25°	8442.4	8432.6	8452.4	8457.2	8466.9	8516.0	8530.8	8565.2	8609.4	8653.7	8717.5
27.5°	8245.9	8236.2	8241.1	8260.6	8275.5	8314.6	8324.6	8359.0	8393.3	8432.6	8486.7
30°	7867.7	7858.0	7853.2	7887.5	7902.3	7931.6	7946.3	8005.4	8015.1	8059.4	8098.5
32.5°	7366.8	7361.9	7371.8	7401.2	7415.9	7455.4	7475.0	7509.3	7533.8	7558.4	7597.7
35°	6807.0	6797.1	6807.0	6836.5	6836.5	6870.9	6885.7	6900.2	6895.4	6900.2	6890.5
37.5°	6286.5	6281.4	6286.5	6301.0	6286.5	6301.0	6286.5	6257.0	6203.0	6144.0	6084.9
40°	5844.4	5849.2	5820.0	5839.5	5785.3	5775.6	5721.6	5648.0	5540.0	5422.0	5255.1
42.5°	5373.0	5358.3	5338.6	5348.4	5304.3	5269.7	5181.3	5088.2	4950.4	4754.1	4552.7
45°	4793.4	4788.6	4778.7	4773.8	4744.2	4709.9	4636.1	4528.2	4375.9	4174.7	3933.9
47.5°	4228.7	4213.8	4213.8	4218.6	4184.3	4179.5	4120.4	4027.3	3894.6	3698.1	3447.7
50°	3688.2	3683.4	3693.3	3713.0	3688.2	3678.5	3639.4	3575.5	3457.6	3290.6	3054.7
52.5°	3202.1	3197.2	3207.2	3231.6	3221.7	3231.6	3192.4	3143.2	3064.6	2902.5	2696.3
55°	2725.8	2725.8	2725.8	2755.1	2755.1	2755.1	2735.5	2706.2	2632.4	2514.6	2323.1
57.5°	2229.8	2234.6	2264.1	2268.9	2264.1	2274.0	2268.9	2239.4	2190.5	2107.0	1959.6
60°	1812.3	1812.3	1827.0	1841.8	1836.8	1841.8	1841.8	1827.0	1778.0	1709.2	1591.3
62.5°	1434.0	1448.8	1438.9	1448.8	1468.5	1448.8	1438.9	1429.2	1394.9	1350.6	1252.4
65°	1085.4	1095.3	1095.3	1100.1	1090.2	1095.3	1075.6	1060.9	1041.3	992.1	928.2
67.5°	825.2	825.2	825.2	825.2	820.1	815.3	810.4	795.7	761.3	741.7	672.8
70°	633.5	604.0	604.0	604.0	604.0	609.1	594.3	574.8	564.9	530.4	481.3
72.5°	422.3	432.2	422.3	422.3	412.5	417.5	397.8	387.9	378.2	358.7	329.1
75°	304.4	280.0	289.7	294.8	280.0	289.7	270.1	250.4	250.4	235.7	221.0
77.5°	196.5	191.6	196.5	201.4	196.5	191.6	181.7	171.8	171.8	167.0	152.2
80°	142.5	137.5	137.5	137.5	132.6	137.5	127.8	127.8	117.9	113.0	103.0
82.5°	93.4	93.4	88.3	93.4	88.3	93.4	78.6	78.6	78.6	73.6	63.9
85°	63.9	54.0	54.0	59.1	49.2	59.1	54.0	49.2	44.3	44.3	39.3
87.5°	29.5	34.3	29.5	34.3	29.5	29.5	34.3	29.5	29.5	19.6	19.6
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°	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2
2.5°	10009.1	10014.0	10014.0	10033.8	10043.4	10048.3	10048.3	10087.8	10073.0	10082.9	10092.6
5°	9866.8	9896.1	9906.0	9906.0	9960.0	9979.5	9999.2	10043.4	10048.3	10077.9	10112.2
7.5°	9729.1	9763.5	9783.3	9827.3	9861.8	9896.1	9955.1	9984.6	10014.0	10053.3	10097.4
10°	9596.5	9636.0	9675.1	9709.5	9763.5	9807.8	9847.0	9915.8	9950.3	10004.3	10063.1
12.5°	9468.9	9522.9	9557.3	9616.2	9675.1	9714.4	9773.4	9837.2	9891.2	9945.2	10014.0
15°	9355.9	9419.8	9459.0	9522.9	9586.8	9640.8	9704.7	9783.3	9822.5	9886.4	9950.3
17.5°	9233.1	9301.9	9351.1	9409.9	9488.6	9547.4	9601.5	9679.9	9729.1	9797.8	9871.6
20°	9105.5	9174.3	9233.1	9292.1	9370.7	9429.5	9493.4	9572.1	9626.1	9694.8	9753.8
22.5°	8953.3	9017.1	9080.8	9149.5	9228.2	9277.3	9351.1	9419.8	9478.7	9542.6	9601.5
25°	8756.8	8835.4	8884.6	8948.2	9012.2	9066.0	9144.7	9213.4	9262.6	9321.6	9375.5
27.5°	8525.9	8585.0	8624.1	8678.1	8742.0	8791.1	8849.9	8918.9	8968.1	9022.1	9061.2
30°	8133.0	8187.1	8221.5	8260.6	8324.6	8368.9	8417.9	8481.6	8516.0	8555.4	8589.8
32.5°	7617.3	7661.5	7681.2	7710.6	7755.0	7799.0	7838.4	7892.3	7907.2	7931.6	7931.6
35°	6870.9	6880.6	6875.8	6885.7	6905.2	6929.8	6964.1	6998.5	7018.1	7018.1	7003.6
37.5°	5996.6	5937.8	5873.8	5824.8	5810.1	5800.2	5820.0	5834.5	5854.3	5864.0	5839.5
40°	5088.2	4955.5	4813.0	4685.3	4596.9	4557.7	4543.0	4552.7	4552.7	4587.0	4587.0
42.5°	4307.3	4100.8	3889.8	3698.1	3570.4	3472.3	3428.1	3428.1	3432.9	3457.6	3472.3
45°	3659.0	3398.5	3152.9	2941.9	2765.0	2637.2	2578.4	2563.6	2558.8	2568.5	2602.9
47.5°	3162.8	2892.8	2637.2	2377.1	2190.5	2062.8	2008.8	1989.0	1969.3	1989.0	1994.1
50°	2774.9	2494.9	2224.9	1964.5	1768.0	1655.0	1586.2	1556.8	1551.9	1551.9	1561.8
52.5°	2421.1	2161.0	1890.9	1625.7	1419.3	1311.3	1247.5	1232.7	1213.1	1232.7	1232.7
55°	2087.2	1827.0	1561.8	1311.3	1139.3	1026.6	967.5	947.9	938.0	952.8	952.8
57.5°	1724.0	1502.8	1257.4	1031.4	859.5	780.9	736.6	712.1	707.2	717.1	707.2
60°	1414.5	1227.8	1016.7	810.4	677.8	594.3	559.9	550.0	540.1	550.0	550.0
62.5°	1119.7	962.7	790.6	633.5	520.5	461.7	422.3	422.3	417.5	417.5	422.3
65°	830.0	707.2	584.4	451.8	363.5	319.2	289.7	289.7	284.8	289.7	284.8
67.5°	604.0	520.5	422.3	329.1	260.3	235.7	216.1	201.4	211.3	201.4	196.5
70°	442.1	373.2	304.4	250.4	201.4	176.8	162.1	157.0	147.4	147.4	147.4
72.5°	294.8	250.4	206.2	162.1	132.6	108.0	103.0	93.4	83.5	88.3	98.2
75°	196.5	167.0	147.4	117.9	88.3	88.3	59.1	59.1	49.2	59.1	44.3
77.5°	137.5	113.0	88.3	73.6	59.1	54.0	39.3	39.3	34.3	34.3	34.3
80°	98.2	83.5	63.9	54.0	39.3	39.3	34.3	29.5	24.4	24.4	29.5
82.5°	59.1	44.3	44.3	39.3	24.4	19.6	14.7	19.6	9.9	9.9	9.9
85°	34.3	29.5	24.4	14.7	9.9	9.9	4.8	0.0	4.8	4.8	0.0
87.5°	19.6	9.9	9.9	4.8	0.0	4.8	4.8	0.0	0.0	0.0	9.9
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°	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2
2.5°	10117.2	10112.2	10122.1	10122.1	10151.7	10146.6	10161.3	10161.3	10151.7	10156.5	10176.1
5°	10151.7	10166.4	10195.6	10220.4	10264.4	10284.2	10308.7	10333.4	10338.2	10352.9	10367.8
7.5°	10151.7	10200.7	10235.1	10279.1	10338.2	10372.6	10426.5	10470.8	10490.4	10514.9	10544.4
10°	10131.9	10180.9	10244.8	10294.0	10367.8	10421.7	10475.7	10544.4	10573.9	10613.1	10652.5
12.5°	10092.6	10146.6	10215.3	10279.1	10362.7	10411.8	10480.5	10544.4	10588.7	10642.6	10686.9
15°	10033.8	10097.4	10161.3	10225.2	10313.6	10372.6	10436.4	10510.1	10554.3	10613.1	10652.5
17.5°	9940.4	10009.1	10068.1	10126.9	10210.5	10279.1	10338.2	10406.9	10451.2	10500.3	10554.3
20°	9827.3	9891.2	9955.1	10004.3	10087.8	10146.6	10210.5	10274.3	10308.7	10318.6	10402.1
22.5°	9685.0	9729.1	9778.3	9856.9	9906.0	9960.0	10019.0	10077.9	10112.2	10166.4	10195.6
25°	9449.1	9493.4	9547.4	9581.7	9640.8	9685.0	9743.8	9807.8	9827.3	9866.8	9896.1
27.5°	9120.3	9144.7	9169.3	9198.7	9233.1	9257.7	9292.1	9321.6	9341.2	9360.8	9380.4
30°	8599.5	8599.5	8599.5	8579.9	8594.7	8609.4	8614.2	8609.4	8609.4	8604.6	8604.6
32.5°	7912.0	7872.8	7828.5	7789.3	7774.5	7755.0	7745.1	7730.2	7705.8	7691.1	7695.9
35°	6983.7	6895.4	6841.4	6792.3	6753.0	6723.6	6708.8	6694.0	6689.1	6669.6	6649.8
37.5°	5824.8	5760.9	5721.6	5692.2	5657.8	5628.3	5633.1	5638.2	5652.8	5643.0	5648.0
40°	4596.9	4582.1	4596.9	4562.6	4552.7	4562.6	4587.0	4621.6	4641.2	4660.8	4695.2
42.5°	3496.8	3521.2	3555.8	3555.8	3570.4	3590.2	3619.5	3673.7	3703.0	3737.4	3776.7
45°	2632.4	2662.0	2706.2	2720.7	2730.6	2755.1	2789.7	2833.8	2853.3	2882.9	2917.2
47.5°	2028.4	2048.0	2072.5	2097.1	2121.5	2131.4	2165.8	2165.8	2190.5	2210.1	2219.8
50°	1581.4	1601.0	1620.7	1635.4	1645.3	1660.0	1669.7	1684.6	1689.4	1699.3	1704.2
52.5°	1237.6	1262.2	1262.2	1271.9	1286.7	1301.4	1296.6	1301.4	1306.4	1306.4	1321.1
55°	967.5	967.5	982.2	982.2	992.1	987.1	992.1	992.1	992.1	992.1	997.0
57.5°	721.9	727.0	741.7	731.8	727.0	736.6	727.0	736.6	731.8	741.7	727.0
60°	554.8	554.8	559.9	559.9	564.9	564.9	564.9	559.9	559.9	554.8	554.8
62.5°	417.5	422.3	427.4	422.3	422.3	422.3	417.5	417.5	412.5	407.6	407.6
65°	280.0	275.2	284.8	275.2	280.0	280.0	275.2	280.0	265.3	270.1	265.3
67.5°	201.4	196.5	191.6	196.5	191.6	186.6	186.6	191.6	196.5	181.7	181.7
70°	132.6	137.5	132.6	137.5	142.5	142.5	137.5	132.6	137.5	127.8	132.6
72.5°	83.5	83.5	83.5	83.5	83.5	88.3	88.3	88.3	78.6	78.6	73.6
75°	39.3	54.0	44.3	39.3	54.0	54.0	49.2	49.2	44.3	44.3	44.3
77.5°	39.3	29.5	29.5	29.5	29.5	29.5	29.5	29.5	24.4	29.5	24.4
80°	19.6	19.6	19.6	14.7	19.6	19.6	24.4	19.6	19.6	14.7	24.4
82.5°	9.9	9.9	9.9	0.0	4.8	9.9	9.9	4.8	9.9	9.9	4.8
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: P248640

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2
2.5°	10171.2	10166.4	10171.2	10176.1	10171.2	10166.4	10171.2	10176.1	10156.5	10151.7	10161.3
5°	10387.4	10387.4	10397.0	10402.1	10397.0	10387.4	10387.4	10367.8	10352.9	10338.2	10333.4
7.5°	10573.9	10583.8	10593.6	10598.4	10593.6	10583.8	10573.9	10544.4	10514.9	10490.4	10470.8
10°	10686.9	10701.7	10721.2	10731.0	10721.2	10701.7	10686.9	10652.5	10613.1	10573.9	10544.4
12.5°	10736.0	10750.8	10775.2	10770.4	10775.2	10750.8	10736.0	10686.9	10642.6	10588.7	10544.4
15°	10701.7	10721.2	10745.8	10755.7	10745.8	10721.2	10701.7	10652.5	10613.1	10554.3	10510.1
17.5°	10593.6	10623.0	10637.8	10652.5	10637.8	10623.0	10593.6	10554.3	10500.3	10451.2	10406.9
20°	10446.2	10466.0	10485.6	10490.4	10485.6	10466.0	10446.2	10402.1	10318.6	10308.7	10274.3
22.5°	10235.1	10249.9	10294.0	10279.1	10294.0	10249.9	10235.1	10195.6	10166.4	10112.2	10077.9
25°	9930.5	9945.2	9950.3	9955.1	9950.3	9945.2	9930.5	9896.1	9866.8	9827.3	9807.8
27.5°	9405.1	9405.1	9414.8	9419.8	9414.8	9405.1	9405.1	9380.4	9360.8	9341.2	9321.6
30°	8609.4	8609.4	8609.4	8634.0	8609.4	8609.4	8609.4	8604.6	8604.6	8609.4	8609.4
32.5°	7691.1	7681.2	7671.4	7681.2	7671.4	7681.2	7691.1	7695.9	7691.1	7705.8	7730.2
35°	6649.8	6644.9	6659.7	6640.1	6659.7	6644.9	6649.8	6649.8	6669.6	6689.1	6694.0
37.5°	5652.8	5643.0	5662.7	5643.0	5662.7	5643.0	5652.8	5648.0	5643.0	5652.8	5638.2
40°	4705.1	4714.8	4714.8	4754.1	4714.8	4714.8	4705.1	4695.2	4660.8	4641.2	4621.6
42.5°	3796.4	3825.9	3816.0	3845.5	3816.0	3825.9	3796.4	3776.7	3737.4	3703.0	3673.7
45°	2936.8	2956.6	2956.6	2966.4	2956.6	2956.6	2936.8	2917.2	2882.9	2853.3	2833.8
47.5°	2254.2	2254.2	2254.2	2259.2	2254.2	2254.2	2254.2	2219.8	2210.1	2190.5	2165.8
50°	1714.0	1718.9	1724.0	1728.8	1724.0	1718.9	1714.0	1704.2	1699.3	1689.4	1684.6
52.5°	1316.2	1321.1	1311.3	1321.1	1311.3	1321.1	1316.2	1321.1	1306.4	1306.4	1301.4
55°	997.0	992.1	997.0	1001.8	997.0	992.1	997.0	997.0	992.1	992.1	992.1
57.5°	731.8	721.9	721.9	721.9	721.9	721.9	731.8	727.0	741.7	731.8	736.6
60°	545.2	550.0	550.0	554.8	550.0	550.0	545.2	554.8	554.8	559.9	559.9
62.5°	402.6	417.5	407.6	417.5	407.6	417.5	402.6	407.6	407.6	412.5	417.5
65°	260.3	260.3	260.3	265.3	260.3	260.3	260.3	265.3	270.1	265.3	280.0
67.5°	176.8	181.7	191.6	186.6	191.6	181.7	176.8	181.7	181.7	196.5	191.6
70°	142.5	127.8	127.8	142.5	127.8	127.8	142.5	132.6	127.8	137.5	132.6
72.5°	83.5	73.6	83.5	83.5	83.5	73.6	83.5	73.6	78.6	78.6	88.3
75°	44.3	39.3	34.3	49.2	34.3	39.3	44.3	44.3	44.3	44.3	49.2
77.5°	29.5	24.4	34.3	34.3	34.3	24.4	29.5	24.4	29.5	24.4	29.5
80°	14.7	19.6	14.7	24.4	14.7	19.6	14.7	24.4	14.7	19.6	19.6
82.5°	4.8	9.9	9.9	9.9	9.9	9.9	4.8	4.8	9.9	9.9	4.8
85°	0.0	9.9	4.8	4.8	4.8	9.9	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	0.0	0.0	4.8	0.0	0.0	4.8	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: P248640

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2
2.5°	10161.3	10146.6	10151.7	10122.1	10122.1	10112.2	10117.2	10092.6	10082.9	10073.0	10087.8
5°	10308.7	10284.2	10264.4	10220.4	10195.6	10166.4	10151.7	10112.2	10077.9	10048.3	10043.4
7.5°	10426.5	10372.6	10338.2	10279.1	10235.1	10200.7	10151.7	10097.4	10053.3	10014.0	9984.6
10°	10475.7	10421.7	10367.8	10294.0	10244.8	10180.9	10131.9	10063.1	10004.3	9950.3	9915.8
12.5°	10480.5	10411.8	10362.7	10279.1	10215.3	10146.6	10092.6	10014.0	9945.2	9891.2	9837.2
15°	10436.4	10372.6	10313.6	10225.2	10161.3	10097.4	10033.8	9950.3	9886.4	9822.5	9783.3
17.5°	10338.2	10279.1	10210.5	10126.9	10068.1	10009.1	9940.4	9871.6	9797.8	9729.1	9679.9
20°	10210.5	10146.6	10087.8	10004.3	9955.1	9891.2	9827.3	9753.8	9694.8	9626.1	9572.1
22.5°	10019.0	9960.0	9906.0	9856.9	9778.3	9729.1	9685.0	9601.5	9542.6	9478.7	9419.8
25°	9743.8	9685.0	9640.8	9581.7	9547.4	9493.4	9449.1	9375.5	9321.6	9262.6	9213.4
27.5°	9292.1	9257.7	9233.1	9198.7	9169.3	9144.7	9120.3	9061.2	9022.1	8968.1	8918.9
30°	8614.2	8609.4	8594.7	8579.9	8599.5	8599.5	8599.5	8589.8	8555.4	8516.0	8481.6
32.5°	7745.1	7755.0	7774.5	7789.3	7828.5	7872.8	7912.0	7931.6	7931.6	7907.2	7892.3
35°	6708.8	6723.6	6753.0	6792.3	6841.4	6895.4	6983.7	7003.6	7018.1	7018.1	6998.5
37.5°	5633.1	5628.3	5657.8	5692.2	5721.6	5760.9	5824.8	5839.5	5864.0	5854.3	5834.5
40°	4587.0	4562.6	4552.7	4562.6	4596.9	4582.1	4596.9	4587.0	4587.0	4552.7	4552.7
42.5°	3619.5	3590.2	3570.4	3555.8	3555.8	3521.2	3496.8	3472.3	3457.6	3432.9	3428.1
45°	2789.7	2755.1	2730.6	2720.7	2706.2	2662.0	2632.4	2602.9	2568.5	2558.8	2563.6
47.5°	2165.8	2131.4	2121.5	2097.1	2072.5	2048.0	2028.4	1994.1	1989.0	1969.3	1989.0
50°	1669.7	1660.0	1645.3	1635.4	1620.7	1601.0	1581.4	1561.8	1551.9	1551.9	1556.8
52.5°	1296.6	1301.4	1286.7	1271.9	1262.2	1262.2	1237.6	1232.7	1232.7	1213.1	1232.7
55°	992.1	987.1	992.1	982.2	982.2	967.5	967.5	952.8	952.8	938.0	947.9
57.5°	727.0	736.6	727.0	731.8	741.7	727.0	721.9	707.2	717.1	707.2	712.1
60°	564.9	564.9	564.9	559.9	559.9	554.8	554.8	550.0	550.0	540.1	550.0
62.5°	417.5	422.3	422.3	422.3	427.4	422.3	417.5	422.3	417.5	417.5	422.3
65°	275.2	280.0	280.0	275.2	284.8	275.2	280.0	284.8	289.7	284.8	289.7
67.5°	186.6	186.6	191.6	196.5	191.6	196.5	201.4	196.5	201.4	211.3	201.4
70°	137.5	142.5	142.5	137.5	132.6	137.5	132.6	147.4	147.4	147.4	157.0
72.5°	88.3	88.3	83.5	83.5	83.5	83.5	83.5	98.2	88.3	83.5	93.4
75°	49.2	54.0	54.0	39.3	44.3	54.0	39.3	44.3	59.1	49.2	59.1
77.5°	29.5	29.5	29.5	29.5	29.5	29.5	39.3	34.3	34.3	34.3	39.3
80°	24.4	19.6	19.6	14.7	19.6	19.6	19.6	29.5	24.4	24.4	29.5
82.5°	9.9	9.9	4.8	0.0	9.9	9.9	9.9	9.9	9.9	9.9	19.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	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: P248640

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2
2.5°	10048.3	10048.3	10043.4	10033.8	10014.0	10014.0	10009.1	9994.4	9984.6	9979.5	9979.5
5°	9999.2	9979.5	9960.0	9906.0	9906.0	9896.1	9866.8	9847.0	9837.2	9812.6	9802.9
7.5°	9955.1	9896.1	9861.8	9827.3	9783.3	9763.5	9729.1	9714.4	9679.9	9655.5	9640.8
10°	9847.0	9807.8	9763.5	9709.5	9675.1	9636.0	9596.5	9567.2	9522.9	9498.3	9478.7
12.5°	9773.4	9714.4	9675.1	9616.2	9557.3	9522.9	9468.9	9434.6	9390.4	9341.2	9311.7
15°	9704.7	9640.8	9586.8	9522.9	9459.0	9419.8	9355.9	9316.7	9252.9	9203.7	9169.3
17.5°	9601.5	9547.4	9488.6	9409.9	9351.1	9301.9	9233.1	9184.2	9125.1	9061.2	9026.9
20°	9493.4	9429.5	9370.7	9292.1	9233.1	9174.3	9105.5	9051.5	8982.6	8923.7	8884.6
22.5°	9351.1	9277.3	9228.2	9149.5	9080.8	9017.1	8953.3	8889.4	8825.5	8776.4	8732.1
25°	9144.7	9066.0	9012.2	8948.2	8884.6	8835.4	8756.8	8717.5	8653.7	8609.4	8565.2
27.5°	8849.9	8791.1	8742.0	8678.1	8624.1	8585.0	8525.9	8486.7	8432.6	8393.3	8359.0
30°	8417.9	8368.9	8324.6	8260.6	8221.5	8187.1	8133.0	8098.5	8059.4	8015.1	8005.4
32.5°	7838.4	7799.0	7755.0	7710.6	7681.2	7661.5	7617.3	7597.7	7558.4	7533.8	7509.3
35°	6964.1	6929.8	6905.2	6885.7	6875.8	6880.6	6870.9	6890.5	6900.2	6895.4	6900.2
37.5°	5820.0	5800.2	5810.1	5824.8	5873.8	5937.8	5996.6	6084.9	6144.0	6203.0	6257.0
40°	4543.0	4557.7	4596.9	4685.3	4813.0	4955.5	5088.2	5255.1	5422.0	5540.0	5648.0
42.5°	3428.1	3472.3	3570.4	3698.1	3889.8	4100.8	4307.3	4552.7	4754.1	4950.4	5088.2
45°	2578.4	2637.2	2765.0	2941.9	3152.9	3398.5	3659.0	3933.9	4174.7	4375.9	4528.2
47.5°	2008.8	2062.8	2190.5	2377.1	2637.2	2892.8	3162.8	3447.7	3698.1	3894.6	4027.3
50°	1586.2	1655.0	1768.0	1964.5	2224.9	2494.9	2774.9	3054.7	3290.6	3457.6	3575.5
52.5°	1247.5	1311.3	1419.3	1625.7	1890.9	2161.0	2421.1	2696.3	2902.5	3064.6	3143.2
55°	967.5	1026.6	1139.3	1311.3	1561.8	1827.0	2087.2	2323.1	2514.6	2632.4	2706.2
57.5°	736.6	780.9	859.5	1031.4	1257.4	1502.8	1724.0	1959.6	2107.0	2190.5	2239.4
60°	559.9	594.3	677.8	810.4	1016.7	1227.8	1414.5	1591.3	1709.2	1778.0	1827.0
62.5°	422.3	461.7	520.5	633.5	790.6	962.7	1119.7	1252.4	1350.6	1394.9	1429.2
65°	289.7	319.2	363.5	451.8	584.4	707.2	830.0	928.2	992.1	1041.3	1060.9
67.5°	216.1	235.7	260.3	329.1	422.3	520.5	604.0	672.8	741.7	761.3	795.7
70°	162.1	176.8	201.4	250.4	304.4	373.2	442.1	481.3	530.4	564.9	574.8
72.5°	103.0	108.0	132.6	162.1	206.2	250.4	294.8	329.1	358.7	378.2	387.9
75°	59.1	88.3	88.3	117.9	147.4	167.0	196.5	221.0	235.7	250.4	250.4
77.5°	39.3	54.0	59.1	73.6	88.3	113.0	137.5	152.2	167.0	171.8	171.8
80°	34.3	39.3	39.3	54.0	63.9	83.5	98.2	103.0	113.0	117.9	127.8
82.5°	14.7	19.6	24.4	39.3	44.3	44.3	59.1	63.9	73.6	78.6	78.6
85°	4.8	9.9	9.9	14.7	24.4	29.5	34.3	39.3	44.3	44.3	49.2
87.5°	4.8	4.8	0.0	4.8	9.9	9.9	19.6	19.6	19.6	29.5	29.5
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: P248640

CATALOG NUMBER: LD8B200D010 ER8B200927 8LBSW0H

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2	10058.2
2.5°	9969.9	9974.7	9955.1	9950.3	9940.4	9945.2	9955.1
5°	9788.2	9793.0	9773.4	9753.8	9753.8	9748.7	9753.8
7.5°	9616.2	9621.2	9591.6	9581.7	9562.2	9567.2	9567.2
10°	9444.3	9444.3	9400.3	9395.2	9380.4	9375.5	9375.5
12.5°	9277.3	9262.6	9228.2	9208.6	9218.5	9189.0	9189.0
15°	9129.9	9105.5	9061.2	9046.5	9022.1	9012.2	9012.2
17.5°	8977.7	8958.2	8918.9	8889.4	8859.8	8855.0	8859.8
20°	8830.4	8810.8	8761.6	8742.0	8717.5	8717.5	8707.6
22.5°	8683.0	8663.4	8619.3	8604.6	8570.1	8570.1	8575.1
25°	8530.8	8516.0	8466.9	8457.2	8452.4	8432.6	8442.4
27.5°	8324.6	8314.6	8275.5	8260.6	8241.1	8236.2	8245.9
30°	7946.3	7931.6	7902.3	7887.5	7853.2	7858.0	7867.7
32.5°	7475.0	7455.4	7415.9	7401.2	7371.8	7361.9	7366.8
35°	6885.7	6870.9	6836.5	6836.5	6807.0	6797.1	6807.0
37.5°	6286.5	6301.0	6286.5	6301.0	6286.5	6281.4	6286.5
40°	5721.6	5775.6	5785.3	5839.5	5820.0	5849.2	5844.4
42.5°	5181.3	5269.7	5304.3	5348.4	5338.6	5358.3	5373.0
45°	4636.1	4709.9	4744.2	4773.8	4778.7	4788.6	4793.4
47.5°	4120.4	4179.5	4184.3	4218.6	4213.8	4213.8	4228.7
50°	3639.4	3678.5	3688.2	3713.0	3693.3	3683.4	3688.2
52.5°	3192.4	3231.6	3221.7	3231.6	3207.2	3197.2	3202.1
55°	2735.5	2755.1	2755.1	2755.1	2725.8	2725.8	2725.8
57.5°	2268.9	2274.0	2264.1	2268.9	2264.1	2234.6	2229.8
60°	1841.8	1841.8	1836.8	1841.8	1827.0	1812.3	1812.3
62.5°	1438.9	1448.8	1468.5	1448.8	1438.9	1448.8	1434.0
65°	1075.6	1095.3	1090.2	1100.1	1095.3	1095.3	1085.4
67.5°	810.4	815.3	820.1	825.2	825.2	825.2	825.2
70°	594.3	609.1	604.0	604.0	604.0	604.0	633.5
72.5°	397.8	417.5	412.5	422.3	422.3	432.2	422.3
75°	270.1	289.7	280.0	294.8	289.7	280.0	304.4
77.5°	181.7	191.6	196.5	201.4	196.5	191.6	196.5
80°	127.8	137.5	132.6	137.5	137.5	137.5	142.5
82.5°	78.6	93.4	88.3	93.4	88.3	93.4	93.4
85°	54.0	59.1	49.2	59.1	54.0	54.0	63.9
87.5°	34.3	29.5	29.5	34.3	29.5	34.3	29.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)