

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: P249045

Luminaire Tested: **LD8B200D010 ER8B200935 8LBSW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249045  
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 ER8B200935 8LBSW0MW  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18251.0 lumens  
Efficiency: N/A  
Efficacy: 81.7 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

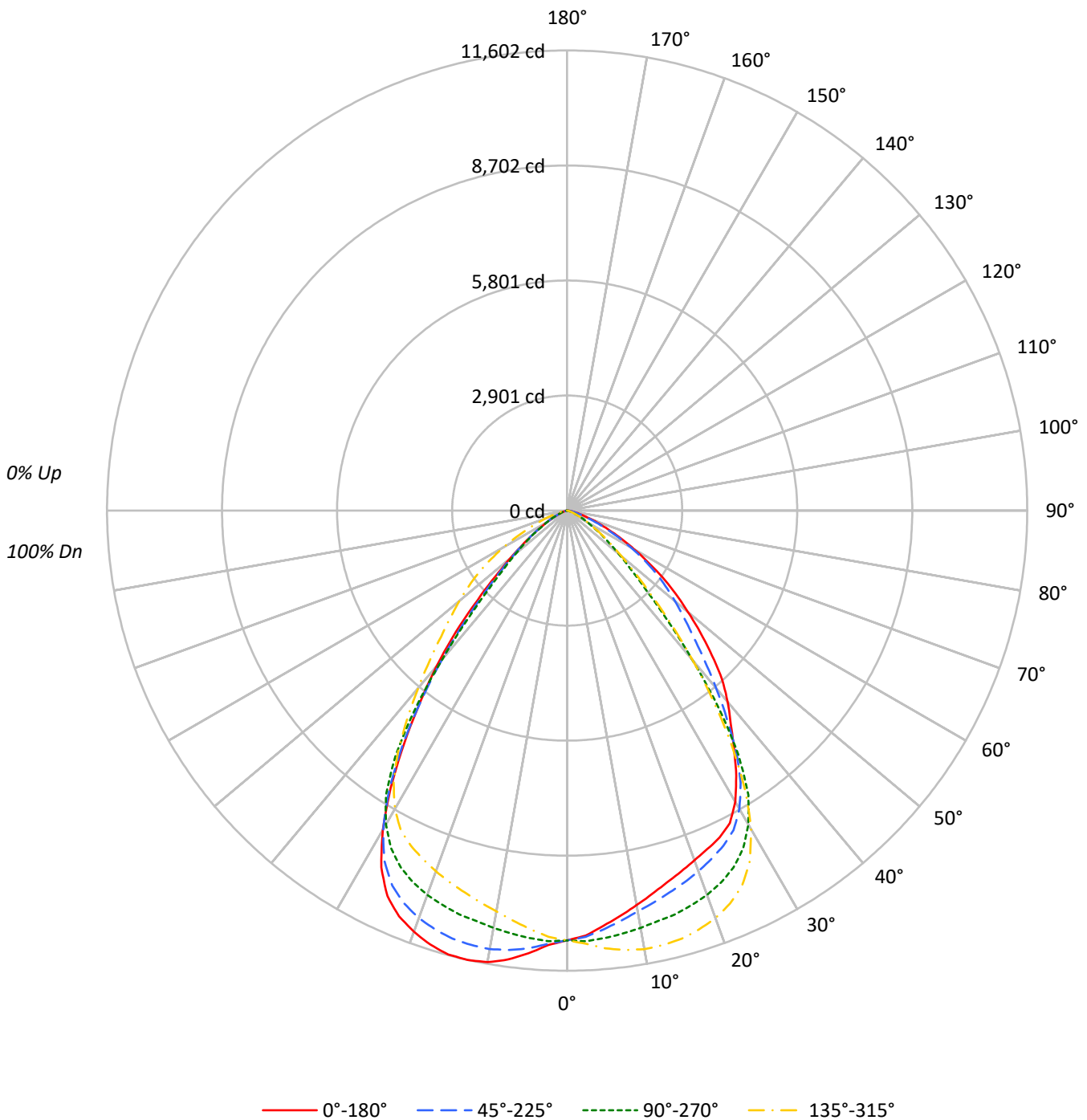
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	334111	334111	334111	334111
5°	325238	334896	346856	334896
10°	316242	334459	361961	334459
15°	309922	336445	369882	336445
20°	307814	338369	370833	338369
25°	309432	337689	364875	337689
30°	301781	325328	331174	325328
35°	276037	283800	269265	283800
40°	253431	197417	206157	197417
45°	225180	120435	139353	120435
50°	190601	80450	89340	80450
55°	157860	54896	58019	54896
60°	120397	36541	36868	36541
65°	85311	22772	20846	22772
70°	61534	15255	13839	15255
75°	39079	7577	6303	7577
80°	27258	5647	4670	5647
85°	24342	0	1840	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1031.3	5.7
10°-20°	2986.4	16.4
20°-30°	4522.1	24.8
30°-40°	4532.2	24.8
40°-50°	2846.0	15.6
50°-60°	1516.6	8.3
60°-70°	623.7	3.4
70°-80°	164.8	0.9
80°-90°	27.9	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°	8539.8	46.8
0°-40°	13072.0	71.6
0°-60°	17434.7	95.5
0°-90°	18251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18251.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	10835	10835	10835	10835	10835	
5°	10507	10819	11206	10819	10507	991
15°	9708	10539	11586	10539	9708	2746
25°	9094	9925	10724	9925	9094	4171
35°	7333	7539	7153	7539	7333	4594
45°	5164	2762	3196	2762	5164	3971
55°	2936	1021	1079	1021	2936	2618
65°	1169	312	286	312	1169	1213
75°	328	64	53	64	328	372
85°	69	0	5	0	69	76
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°	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0
2.5°	10724.0	10713.3	10708.1	10718.8	10724.0	10745.1	10739.9	10750.3	10750.3	10755.8	10766.2
5°	10507.1	10501.6	10507.1	10507.1	10528.2	10549.3	10544.1	10560.0	10570.5	10597.0	10607.5
7.5°	10306.1	10306.1	10300.6	10321.8	10332.4	10364.2	10358.8	10385.4	10401.3	10427.6	10464.6
10°	10099.7	10099.7	10104.9	10120.8	10126.2	10173.7	10173.7	10210.7	10231.8	10258.4	10306.1
12.5°	9898.7	9898.7	9930.5	9919.8	9940.9	9977.9	9993.8	10030.8	10062.6	10115.6	10163.2
15°	9708.1	9708.1	9718.8	9745.1	9761.0	9808.7	9835.1	9877.5	9914.6	9967.5	10036.3
17.5°	9544.1	9538.9	9544.1	9575.9	9607.7	9650.0	9671.1	9724.0	9761.0	9829.8	9893.4
20°	9380.2	9390.8	9390.8	9417.2	9438.3	9491.2	9512.3	9570.7	9613.0	9676.3	9750.6
22.5°	9237.3	9232.1	9232.1	9269.1	9285.0	9332.5	9353.6	9406.5	9454.2	9507.1	9575.9
25°	9094.5	9083.8	9105.1	9110.4	9120.8	9173.7	9189.6	9226.6	9274.3	9322.0	9390.8
27.5°	8882.8	8872.3	8877.6	8898.7	8914.6	8956.8	8967.5	9004.5	9041.5	9083.8	9142.1
30°	8475.4	8464.9	8459.7	8496.7	8512.6	8544.2	8560.1	8623.7	8634.1	8681.8	8724.0
32.5°	7935.7	7930.5	7941.2	7972.8	7988.7	8031.1	8052.2	8089.3	8115.6	8142.2	8184.4
35°	7332.8	7322.1	7332.8	7364.5	7364.5	7401.6	7417.5	7433.1	7427.9	7433.1	7422.7
37.5°	6772.0	6766.6	6772.0	6787.7	6772.0	6787.7	6772.0	6740.2	6682.1	6618.5	6554.9
40°	6295.8	6301.0	6269.4	6290.5	6232.2	6221.7	6163.6	6084.1	5967.8	5840.9	5661.0
42.5°	5787.9	5772.0	5750.9	5761.4	5713.9	5676.7	5581.5	5481.1	5332.8	5121.4	4904.3
45°	5163.6	5158.4	5147.7	5142.5	5110.7	5073.7	4994.2	4877.9	4713.9	4497.0	4237.7
47.5°	4555.2	4539.3	4539.3	4544.5	4507.5	4502.3	4438.7	4338.3	4195.4	3983.8	3714.0
50°	3973.1	3967.9	3978.5	3999.7	3973.1	3962.6	3920.4	3851.6	3724.6	3544.8	3290.6
52.5°	3449.4	3444.1	3454.8	3481.2	3470.5	3481.2	3438.9	3386.0	3301.3	3126.6	2904.5
55°	2936.3	2936.3	2936.3	2967.9	2967.9	2967.9	2946.8	2915.2	2835.7	2708.8	2502.5
57.5°	2401.9	2407.2	2439.0	2444.2	2439.0	2449.6	2444.2	2412.4	2359.7	2269.7	2111.0
60°	1952.2	1952.2	1968.1	1984.0	1978.6	1984.0	1984.0	1968.1	1915.2	1841.2	1714.2
62.5°	1544.8	1560.7	1550.0	1560.7	1581.8	1560.7	1550.0	1539.6	1502.6	1454.9	1349.0
65°	1169.2	1179.8	1179.8	1185.1	1174.4	1179.8	1158.7	1142.8	1121.7	1068.8	1000.0
67.5°	888.9	888.9	888.9	888.9	883.5	878.2	873.0	857.1	820.1	799.0	724.7
70°	682.5	650.7	650.7	650.7	650.7	656.1	640.2	619.1	608.4	571.4	518.5
72.5°	454.9	465.6	454.9	454.9	444.5	449.7	428.6	417.9	407.4	386.3	354.5
75°	328.0	301.6	312.1	317.5	301.6	312.1	290.9	269.8	269.8	253.9	238.0
77.5°	211.7	206.4	211.7	216.9	211.7	206.4	195.8	185.1	185.1	179.9	164.0
80°	153.5	148.1	148.1	148.1	142.9	148.1	137.6	137.6	127.0	121.7	111.1
82.5°	100.6	100.6	95.2	100.6	95.2	100.6	84.7	84.7	84.7	79.3	68.8
85°	68.8	58.1	58.1	63.6	52.9	63.6	58.1	52.9	47.7	47.7	42.2
87.5°	31.8	37.0	31.8	37.0	31.8	31.8	37.0	31.8	31.8	21.1	21.1
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°	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0
2.5°	10782.1	10787.4	10787.4	10808.7	10819.1	10824.4	10824.4	10866.8	10850.9	10861.6	10872.1
5°	10628.8	10660.4	10671.1	10671.1	10729.2	10750.3	10771.5	10819.1	10824.4	10856.2	10893.2
7.5°	10480.5	10517.5	10538.9	10586.4	10623.4	10660.4	10724.0	10755.8	10787.4	10829.8	10877.3
10°	10337.7	10380.1	10422.4	10459.4	10517.5	10565.2	10607.5	10681.5	10718.8	10776.9	10840.3
12.5°	10200.3	10258.4	10295.4	10358.8	10422.4	10464.6	10528.2	10597.0	10655.2	10713.3	10787.4
15°	10078.5	10147.3	10189.6	10258.4	10327.2	10385.4	10454.2	10538.9	10581.1	10649.9	10718.8
17.5°	9946.1	10020.4	10073.3	10136.7	10221.4	10284.8	10343.1	10427.6	10480.5	10554.6	10634.0
20°	9808.7	9882.8	9946.1	10009.7	10094.4	10157.8	10226.6	10311.3	10369.5	10443.5	10507.1
22.5°	9644.7	9713.6	9782.2	9856.2	9940.9	9993.8	10073.3	10147.3	10210.7	10279.5	10343.1
25°	9433.1	9517.8	9570.7	9639.3	9708.1	9766.3	9851.0	9925.0	9977.9	10041.5	10099.7
27.5°	9184.4	9248.0	9290.2	9348.4	9417.2	9470.1	9533.5	9607.7	9660.6	9718.8	9761.0
30°	8761.1	8819.4	8856.4	8898.7	8967.5	9015.2	9068.1	9136.7	9173.7	9216.2	9253.2
32.5°	8205.5	8253.2	8274.4	8306.2	8353.8	8401.3	8443.8	8501.9	8517.8	8544.2	8544.2
35°	7401.6	7412.0	7406.8	7417.5	7438.6	7464.9	7502.0	7539.0	7560.1	7560.1	7544.4
37.5°	6459.7	6396.4	6327.6	6274.6	6258.7	6248.1	6269.4	6285.1	6306.4	6316.9	6290.5
40°	5481.1	5338.3	5184.7	5047.1	4951.9	4909.7	4893.8	4904.3	4904.3	4941.3	4941.3
42.5°	4639.9	4417.6	4190.2	3983.8	3846.1	3740.5	3692.8	3692.8	3698.1	3724.6	3740.5
45°	3941.5	3661.0	3396.5	3169.1	2978.6	2840.9	2777.6	2761.7	2756.5	2766.9	2803.9
47.5°	3407.1	3116.2	2840.9	2560.7	2359.7	2222.1	2163.9	2142.6	2121.5	2142.6	2148.0
50°	2989.2	2687.6	2396.7	2116.2	1904.6	1782.8	1708.8	1677.0	1671.8	1671.8	1682.4
52.5°	2608.2	2327.9	2037.0	1751.3	1528.9	1412.6	1343.8	1327.9	1306.8	1327.9	1327.9
55°	2248.4	1968.1	1682.4	1412.6	1227.3	1105.8	1042.2	1021.1	1010.4	1026.3	1026.3
57.5°	1857.1	1618.9	1354.5	1111.0	925.9	841.2	793.5	767.2	761.7	772.4	761.7
60°	1523.7	1322.7	1095.1	873.0	730.2	640.2	603.2	592.5	581.9	592.5	592.5
62.5°	1206.2	1037.0	851.7	682.5	560.7	497.4	454.9	454.9	449.7	449.7	454.9
65°	894.1	761.7	629.6	486.7	391.5	343.8	312.1	312.1	306.8	312.1	306.8
67.5°	650.7	560.7	454.9	354.5	280.5	253.9	232.8	216.9	227.6	216.9	211.7
70°	476.2	402.0	328.0	269.8	216.9	190.5	174.6	169.2	158.7	158.7	158.7
72.5°	317.5	269.8	222.1	174.6	142.9	116.3	111.1	100.6	89.9	95.2	105.8
75°	211.7	179.9	158.7	127.0	95.2	95.2	63.6	63.6	52.9	63.6	47.7
77.5°	148.1	121.7	95.2	79.3	63.6	58.1	42.2	42.2	37.0	37.0	37.0
80°	105.8	89.9	68.8	58.1	42.2	42.2	37.0	31.8	26.3	26.3	31.8
82.5°	63.6	47.7	47.7	42.2	26.3	21.1	15.9	21.1	10.7	10.7	10.7
85°	37.0	31.8	26.3	15.9	10.7	10.7	5.2	0.0	5.2	5.2	0.0
87.5°	21.1	10.7	10.7	5.2	0.0	5.2	5.2	0.0	0.0	0.0	10.7
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°	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0
2.5°	10898.6	10893.2	10903.9	10903.9	10935.6	10930.2	10946.1	10946.1	10935.6	10940.9	10962.0
5°	10935.6	10951.5	10983.1	11009.7	11057.2	11078.5	11104.8	11131.4	11136.6	11152.5	11168.4
7.5°	10935.6	10988.6	11025.6	11073.1	11136.6	11173.7	11231.8	11279.5	11300.6	11327.0	11358.8
10°	10914.3	10967.2	11036.0	11089.0	11168.4	11226.6	11284.7	11358.8	11390.6	11432.8	11475.3
12.5°	10872.1	10930.2	11004.2	11073.1	11163.0	11215.9	11289.9	11358.8	11406.5	11464.6	11512.3
15°	10808.7	10877.3	10946.1	11014.9	11110.1	11173.7	11242.5	11321.7	11369.4	11432.8	11475.3
17.5°	10708.1	10782.1	10845.7	10909.1	10999.0	11073.1	11136.6	11210.7	11258.4	11311.3	11369.4
20°	10586.4	10655.2	10724.0	10776.9	10866.8	10930.2	10999.0	11067.8	11104.8	11115.5	11205.5
22.5°	10433.0	10480.5	10533.4	10618.1	10671.1	10729.2	10792.8	10856.2	10893.2	10951.5	10983.1
25°	10178.9	10226.6	10284.8	10321.8	10385.4	10433.0	10496.4	10565.2	10586.4	10628.8	10660.4
27.5°	9824.6	9851.0	9877.5	9909.1	9946.1	9972.7	10009.7	10041.5	10062.6	10083.8	10104.9
30°	9263.7	9263.7	9263.7	9242.5	9258.4	9274.3	9279.6	9274.3	9274.3	9269.1	9269.1
32.5°	8523.0	8480.8	8433.1	8390.9	8375.0	8353.8	8343.2	8327.3	8300.9	8285.0	8290.3
35°	7523.1	7427.9	7369.8	7316.9	7274.6	7242.8	7226.9	7211.0	7205.8	7184.7	7163.3
37.5°	6274.6	6205.8	6163.6	6131.8	6094.8	6063.0	6068.2	6073.6	6089.3	6078.9	6084.1
40°	4951.9	4936.0	4951.9	4914.9	4904.3	4914.9	4941.3	4978.5	4999.6	5020.8	5057.8
42.5°	3766.9	3793.2	3830.5	3830.5	3846.1	3867.5	3899.1	3957.4	3989.0	4026.0	4068.5
45°	2835.7	2867.5	2915.2	2930.9	2941.5	2967.9	3005.1	3052.6	3073.7	3105.5	3142.5
47.5°	2185.0	2206.2	2232.5	2259.1	2285.4	2296.1	2333.1	2333.1	2359.7	2380.8	2391.3
50°	1703.6	1724.7	1745.8	1761.7	1772.4	1788.3	1798.7	1814.6	1819.8	1830.5	1835.7
52.5°	1333.1	1359.7	1359.7	1370.2	1386.1	1402.0	1396.7	1402.0	1407.2	1407.2	1423.1
55°	1042.2	1042.2	1058.1	1058.1	1068.8	1063.3	1068.8	1068.8	1068.8	1068.8	1074.0
57.5°	777.6	783.1	799.0	788.3	783.1	793.5	783.1	793.5	788.3	799.0	783.1
60°	597.8	597.8	603.2	603.2	608.4	608.4	608.4	603.2	603.2	597.8	597.8
62.5°	449.7	454.9	460.4	454.9	454.9	454.9	449.7	449.7	444.5	439.0	439.0
65°	301.6	296.4	306.8	296.4	301.6	301.6	296.4	301.6	285.7	290.9	285.7
67.5°	216.9	211.7	206.4	211.7	206.4	201.0	201.0	206.4	211.7	195.8	195.8
70°	142.9	148.1	142.9	148.1	153.5	153.5	148.1	142.9	148.1	137.6	142.9
72.5°	89.9	89.9	89.9	89.9	89.9	95.2	95.2	95.2	84.7	84.7	79.3
75°	42.2	58.1	47.7	42.2	58.1	58.1	52.9	52.9	47.7	47.7	47.7
77.5°	42.2	31.8	31.8	31.8	31.8	31.8	31.8	31.8	26.3	31.8	26.3
80°	21.1	21.1	21.1	15.9	21.1	21.1	26.3	21.1	21.1	15.9	26.3
82.5°	10.7	10.7	10.7	0.0	5.2	10.7	10.7	5.2	10.7	10.7	5.2
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: P249045

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0
2.5°	10956.8	10951.5	10956.8	10962.0	10956.8	10951.5	10956.8	10962.0	10940.9	10935.6	10946.1
5°	11189.6	11189.6	11200.0	11205.5	11200.0	11189.6	11189.6	11168.4	11152.5	11136.6	11131.4
7.5°	11390.6	11401.2	11411.7	11416.9	11411.7	11401.2	11390.6	11358.8	11327.0	11300.6	11279.5
10°	11512.3	11528.2	11549.3	11559.8	11549.3	11528.2	11512.3	11475.3	11432.8	11390.6	11358.8
12.5°	11565.2	11581.1	11607.4	11602.2	11607.4	11581.1	11565.2	11512.3	11464.6	11406.5	11358.8
15°	11528.2	11549.3	11575.7	11586.3	11575.7	11549.3	11528.2	11475.3	11432.8	11369.4	11321.7
17.5°	11411.7	11443.5	11459.4	11475.3	11459.4	11443.5	11411.7	11369.4	11311.3	11258.4	11210.7
20°	11252.9	11274.3	11295.4	11300.6	11295.4	11274.3	11252.9	11205.5	11115.5	11104.8	11067.8
22.5°	11025.6	11041.5	11089.0	11073.1	11089.0	11041.5	11025.6	10983.1	10951.5	10893.2	10856.2
25°	10697.4	10713.3	10718.8	10724.0	10718.8	10713.3	10697.4	10660.4	10628.8	10586.4	10565.2
27.5°	10131.4	10131.4	10141.9	10147.3	10141.9	10131.4	10131.4	10104.9	10083.8	10062.6	10041.5
30°	9274.3	9274.3	9274.3	9300.9	9274.3	9274.3	9274.3	9269.1	9269.1	9274.3	9274.3
32.5°	8285.0	8274.4	8263.9	8274.4	8263.9	8274.4	8285.0	8290.3	8285.0	8300.9	8327.3
35°	7163.3	7158.1	7174.0	7152.9	7174.0	7158.1	7163.3	7163.3	7184.7	7205.8	7211.0
37.5°	6089.3	6078.9	6100.0	6078.9	6100.0	6078.9	6089.3	6084.1	6078.9	6089.3	6073.6
40°	5068.4	5078.9	5078.9	5121.4	5078.9	5078.9	5068.4	5057.8	5020.8	4999.6	4978.5
42.5°	4089.6	4121.4	4110.7	4142.5	4110.7	4121.4	4089.6	4068.5	4026.0	3989.0	3957.4
45°	3163.7	3185.0	3185.0	3195.5	3185.0	3185.0	3163.7	3142.5	3105.5	3073.7	3052.6
47.5°	2428.3	2428.3	2428.3	2433.7	2428.3	2428.3	2428.3	2391.3	2380.8	2359.7	2333.1
50°	1846.4	1851.6	1857.1	1862.3	1857.1	1851.6	1846.4	1835.7	1830.5	1819.8	1814.6
52.5°	1417.9	1423.1	1412.6	1423.1	1412.6	1423.1	1417.9	1423.1	1407.2	1407.2	1402.0
55°	1074.0	1068.8	1074.0	1079.2	1074.0	1068.8	1074.0	1074.0	1068.8	1068.8	1068.8
57.5°	788.3	777.6	777.6	777.6	777.6	777.6	788.3	783.1	799.0	788.3	793.5
60°	587.3	592.5	592.5	597.8	592.5	592.5	587.3	597.8	597.8	603.2	603.2
62.5°	433.8	449.7	439.0	449.7	439.0	449.7	433.8	439.0	439.0	444.5	449.7
65°	280.5	280.5	280.5	285.7	280.5	280.5	280.5	285.7	290.9	285.7	301.6
67.5°	190.5	195.8	206.4	201.0	206.4	195.8	190.5	195.8	195.8	211.7	206.4
70°	153.5	137.6	137.6	153.5	137.6	137.6	153.5	142.9	137.6	148.1	142.9
72.5°	89.9	79.3	89.9	89.9	89.9	79.3	89.9	79.3	84.7	84.7	95.2
75°	47.7	42.2	37.0	52.9	37.0	42.2	47.7	47.7	47.7	47.7	52.9
77.5°	31.8	26.3	37.0	37.0	37.0	26.3	31.8	26.3	31.8	26.3	31.8
80°	15.9	21.1	15.9	26.3	15.9	21.1	15.9	26.3	15.9	21.1	21.1
82.5°	5.2	10.7	10.7	10.7	10.7	10.7	5.2	5.2	10.7	10.7	5.2
85°	0.0	10.7	5.2	5.2	5.2	10.7	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	0.0	0.0	5.2	0.0	0.0	5.2	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: P249045

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0
2.5°	10946.1	10930.2	10935.6	10903.9	10903.9	10893.2	10898.6	10872.1	10861.6	10850.9	10866.8
5°	11104.8	11078.5	11057.2	11009.7	10983.1	10951.5	10935.6	10893.2	10856.2	10824.4	10819.1
7.5°	11231.8	11173.7	11136.6	11073.1	11025.6	10988.6	10935.6	10877.3	10829.8	10787.4	10755.8
10°	11284.7	11226.6	11168.4	11089.0	11036.0	10967.2	10914.3	10840.3	10776.9	10718.8	10681.5
12.5°	11289.9	11215.9	11163.0	11073.1	11004.2	10930.2	10872.1	10787.4	10713.3	10655.2	10597.0
15°	11242.5	11173.7	11110.1	11014.9	10946.1	10877.3	10808.7	10718.8	10649.9	10581.1	10538.9
17.5°	11136.6	11073.1	10999.0	10909.1	10845.7	10782.1	10708.1	10634.0	10554.6	10480.5	10427.6
20°	10999.0	10930.2	10866.8	10776.9	10724.0	10655.2	10586.4	10507.1	10443.5	10369.5	10311.3
22.5°	10792.8	10729.2	10671.1	10618.1	10533.4	10480.5	10433.0	10343.1	10279.5	10210.7	10147.3
25°	10496.4	10433.0	10385.4	10321.8	10284.8	10226.6	10178.9	10099.7	10041.5	9977.9	9925.0
27.5°	10009.7	9972.7	9946.1	9909.1	9877.5	9851.0	9824.6	9761.0	9718.8	9660.6	9607.7
30°	9279.6	9274.3	9258.4	9242.5	9263.7	9263.7	9263.7	9253.2	9216.2	9173.7	9136.7
32.5°	8343.2	8353.8	8375.0	8390.9	8433.1	8480.8	8523.0	8544.2	8544.2	8517.8	8501.9
35°	7226.9	7242.8	7274.6	7316.9	7369.8	7427.9	7523.1	7544.4	7560.1	7560.1	7539.0
37.5°	6068.2	6063.0	6094.8	6131.8	6163.6	6205.8	6274.6	6290.5	6316.9	6306.4	6285.1
40°	4941.3	4914.9	4904.3	4914.9	4951.9	4936.0	4951.9	4941.3	4941.3	4904.3	4904.3
42.5°	3899.1	3867.5	3846.1	3830.5	3830.5	3793.2	3766.9	3740.5	3724.6	3698.1	3692.8
45°	3005.1	2967.9	2941.5	2930.9	2915.2	2867.5	2835.7	2803.9	2766.9	2756.5	2761.7
47.5°	2333.1	2296.1	2285.4	2259.1	2232.5	2206.2	2185.0	2148.0	2142.6	2121.5	2142.6
50°	1798.7	1788.3	1772.4	1761.7	1745.8	1724.7	1703.6	1682.4	1671.8	1671.8	1677.0
52.5°	1396.7	1402.0	1386.1	1370.2	1359.7	1359.7	1333.1	1327.9	1327.9	1306.8	1327.9
55°	1068.8	1063.3	1068.8	1058.1	1058.1	1042.2	1042.2	1026.3	1026.3	1010.4	1021.1
57.5°	783.1	793.5	783.1	788.3	799.0	783.1	777.6	761.7	772.4	761.7	767.2
60°	608.4	608.4	608.4	603.2	603.2	597.8	597.8	592.5	592.5	581.9	592.5
62.5°	449.7	454.9	454.9	454.9	460.4	454.9	449.7	454.9	449.7	449.7	454.9
65°	296.4	301.6	301.6	296.4	306.8	296.4	301.6	306.8	312.1	306.8	312.1
67.5°	201.0	201.0	206.4	211.7	206.4	211.7	216.9	211.7	216.9	227.6	216.9
70°	148.1	153.5	153.5	148.1	142.9	148.1	142.9	158.7	158.7	158.7	169.2
72.5°	95.2	95.2	89.9	89.9	89.9	89.9	89.9	105.8	95.2	89.9	100.6
75°	52.9	58.1	58.1	42.2	47.7	58.1	42.2	47.7	63.6	52.9	63.6
77.5°	31.8	31.8	31.8	31.8	31.8	31.8	42.2	37.0	37.0	37.0	42.2
80°	26.3	21.1	21.1	15.9	21.1	21.1	21.1	31.8	26.3	26.3	31.8
82.5°	10.7	10.7	5.2	0.0	10.7	10.7	10.7	10.7	10.7	10.7	21.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	5.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	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: P249045

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0
2.5°	10824.4	10824.4	10819.1	10808.7	10787.4	10787.4	10782.1	10766.2	10755.8	10750.3	10750.3
5°	10771.5	10750.3	10729.2	10671.1	10671.1	10660.4	10628.8	10607.5	10597.0	10570.5	10560.0
7.5°	10724.0	10660.4	10623.4	10586.4	10538.9	10517.5	10480.5	10464.6	10427.6	10401.3	10385.4
10°	10607.5	10565.2	10517.5	10459.4	10422.4	10380.1	10337.7	10306.1	10258.4	10231.8	10210.7
12.5°	10528.2	10464.6	10422.4	10358.8	10295.4	10258.4	10200.3	10163.2	10115.6	10062.6	10030.8
15°	10454.2	10385.4	10327.2	10258.4	10189.6	10147.3	10078.5	10036.3	9967.5	9914.6	9877.5
17.5°	10343.1	10284.8	10221.4	10136.7	10073.3	10020.4	9946.1	9893.4	9829.8	9761.0	9724.0
20°	10226.6	10157.8	10094.4	10009.7	9946.1	9882.8	9808.7	9750.6	9676.3	9613.0	9570.7
22.5°	10073.3	9993.8	9940.9	9856.2	9782.2	9713.6	9644.7	9575.9	9507.1	9454.2	9406.5
25°	9851.0	9766.3	9708.1	9639.3	9570.7	9517.8	9433.1	9390.8	9322.0	9274.3	9226.6
27.5°	9533.5	9470.1	9417.2	9348.4	9290.2	9248.0	9184.4	9142.1	9083.8	9041.5	9004.5
30°	9068.1	9015.2	8967.5	8898.7	8856.4	8819.4	8761.1	8724.0	8681.8	8634.1	8623.7
32.5°	8443.8	8401.3	8353.8	8306.2	8274.4	8253.2	8205.5	8184.4	8142.2	8115.6	8089.3
35°	7502.0	7464.9	7438.6	7417.5	7406.8	7412.0	7401.6	7422.7	7433.1	7427.9	7433.1
37.5°	6269.4	6248.1	6258.7	6274.6	6327.6	6396.4	6459.7	6554.9	6618.5	6682.1	6740.2
40°	4893.8	4909.7	4951.9	5047.1	5184.7	5338.3	5481.1	5661.0	5840.9	5967.8	6084.1
42.5°	3692.8	3740.5	3846.1	3983.8	4190.2	4417.6	4639.9	4904.3	5121.4	5332.8	5481.1
45°	2777.6	2840.9	2978.6	3169.1	3396.5	3661.0	3941.5	4237.7	4497.0	4713.9	4877.9
47.5°	2163.9	2222.1	2359.7	2560.7	2840.9	3116.2	3407.1	3714.0	3983.8	4195.4	4338.3
50°	1708.8	1782.8	1904.6	2116.2	2396.7	2687.6	2989.2	3290.6	3544.8	3724.6	3851.6
52.5°	1343.8	1412.6	1528.9	1751.3	2037.0	2327.9	2608.2	2904.5	3126.6	3301.3	3386.0
55°	1042.2	1105.8	1227.3	1412.6	1682.4	1968.1	2248.4	2502.5	2708.8	2835.7	2915.2
57.5°	793.5	841.2	925.9	1111.0	1354.5	1618.9	1857.1	2111.0	2269.7	2359.7	2412.4
60°	603.2	640.2	730.2	873.0	1095.1	1322.7	1523.7	1714.2	1841.2	1915.2	1968.1
62.5°	454.9	497.4	560.7	682.5	851.7	1037.0	1206.2	1349.0	1454.9	1502.6	1539.6
65°	312.1	343.8	391.5	486.7	629.6	761.7	894.1	1000.0	1068.8	1121.7	1142.8
67.5°	232.8	253.9	280.5	354.5	454.9	560.7	650.7	724.7	799.0	820.1	857.1
70°	174.6	190.5	216.9	269.8	328.0	402.0	476.2	518.5	571.4	608.4	619.1
72.5°	111.1	116.3	142.9	174.6	222.1	269.8	317.5	354.5	386.3	407.4	417.9
75°	63.6	95.2	95.2	127.0	158.7	179.9	211.7	238.0	253.9	269.8	269.8
77.5°	42.2	58.1	63.6	79.3	95.2	121.7	148.1	164.0	179.9	185.1	185.1
80°	37.0	42.2	42.2	58.1	68.8	89.9	105.8	111.1	121.7	127.0	137.6
82.5°	15.9	21.1	26.3	42.2	47.7	47.7	63.6	68.8	79.3	84.7	84.7
85°	5.2	10.7	10.7	15.9	26.3	31.8	37.0	42.2	47.7	47.7	52.9
87.5°	5.2	5.2	0.0	5.2	10.7	10.7	21.1	21.1	21.1	31.8	31.8
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: P249045

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBSW0MW

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0	10835.0
2.5°	10739.9	10745.1	10724.0	10718.8	10708.1	10713.3	10724.0
5°	10544.1	10549.3	10528.2	10507.1	10507.1	10501.6	10507.1
7.5°	10358.8	10364.2	10332.4	10321.8	10300.6	10306.1	10306.1
10°	10173.7	10173.7	10126.2	10120.8	10104.9	10099.7	10099.7
12.5°	9993.8	9977.9	9940.9	9919.8	9930.5	9898.7	9898.7
15°	9835.1	9808.7	9761.0	9745.1	9718.8	9708.1	9708.1
17.5°	9671.1	9650.0	9607.7	9575.9	9544.1	9538.9	9544.1
20°	9512.3	9491.2	9438.3	9417.2	9390.8	9390.8	9380.2
22.5°	9353.6	9332.5	9285.0	9269.1	9232.1	9232.1	9237.3
25°	9189.6	9173.7	9120.8	9110.4	9105.1	9083.8	9094.5
27.5°	8967.5	8956.8	8914.6	8898.7	8877.6	8872.3	8882.8
30°	8560.1	8544.2	8512.6	8496.7	8459.7	8464.9	8475.4
32.5°	8052.2	8031.1	7988.7	7972.8	7941.2	7930.5	7935.7
35°	7417.5	7401.6	7364.5	7364.5	7332.8	7322.1	7332.8
37.5°	6772.0	6787.7	6772.0	6787.7	6772.0	6766.6	6772.0
40°	6163.6	6221.7	6232.2	6290.5	6269.4	6301.0	6295.8
42.5°	5581.5	5676.7	5713.9	5761.4	5750.9	5772.0	5787.9
45°	4994.2	5073.7	5110.7	5142.5	5147.7	5158.4	5163.6
47.5°	4438.7	4502.3	4507.5	4544.5	4539.3	4539.3	4555.2
50°	3920.4	3962.6	3973.1	3999.7	3978.5	3967.9	3973.1
52.5°	3438.9	3481.2	3470.5	3481.2	3454.8	3444.1	3449.4
55°	2946.8	2967.9	2967.9	2967.9	2936.3	2936.3	2936.3
57.5°	2444.2	2449.6	2439.0	2444.2	2439.0	2407.2	2401.9
60°	1984.0	1984.0	1978.6	1984.0	1968.1	1952.2	1952.2
62.5°	1550.0	1560.7	1581.8	1560.7	1550.0	1560.7	1544.8
65°	1158.7	1179.8	1174.4	1185.1	1179.8	1179.8	1169.2
67.5°	873.0	878.2	883.5	888.9	888.9	888.9	888.9
70°	640.2	656.1	650.7	650.7	650.7	650.7	682.5
72.5°	428.6	449.7	444.5	454.9	454.9	465.6	454.9
75°	290.9	312.1	301.6	317.5	312.1	301.6	328.0
77.5°	195.8	206.4	211.7	216.9	211.7	206.4	211.7
80°	137.6	148.1	142.9	148.1	148.1	148.1	153.5
82.5°	84.7	100.6	95.2	100.6	95.2	100.6	100.6
85°	58.1	63.6	52.9	63.6	58.1	58.1	68.8
87.5°	37.0	31.8	31.8	37.0	31.8	37.0	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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