

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: P248694

Luminaire Tested: **LD8B200D010 ER8B200850 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248694  
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 ER8B200850 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21716.0 lumens  
Efficiency: N/A  
Efficacy: 97.3 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

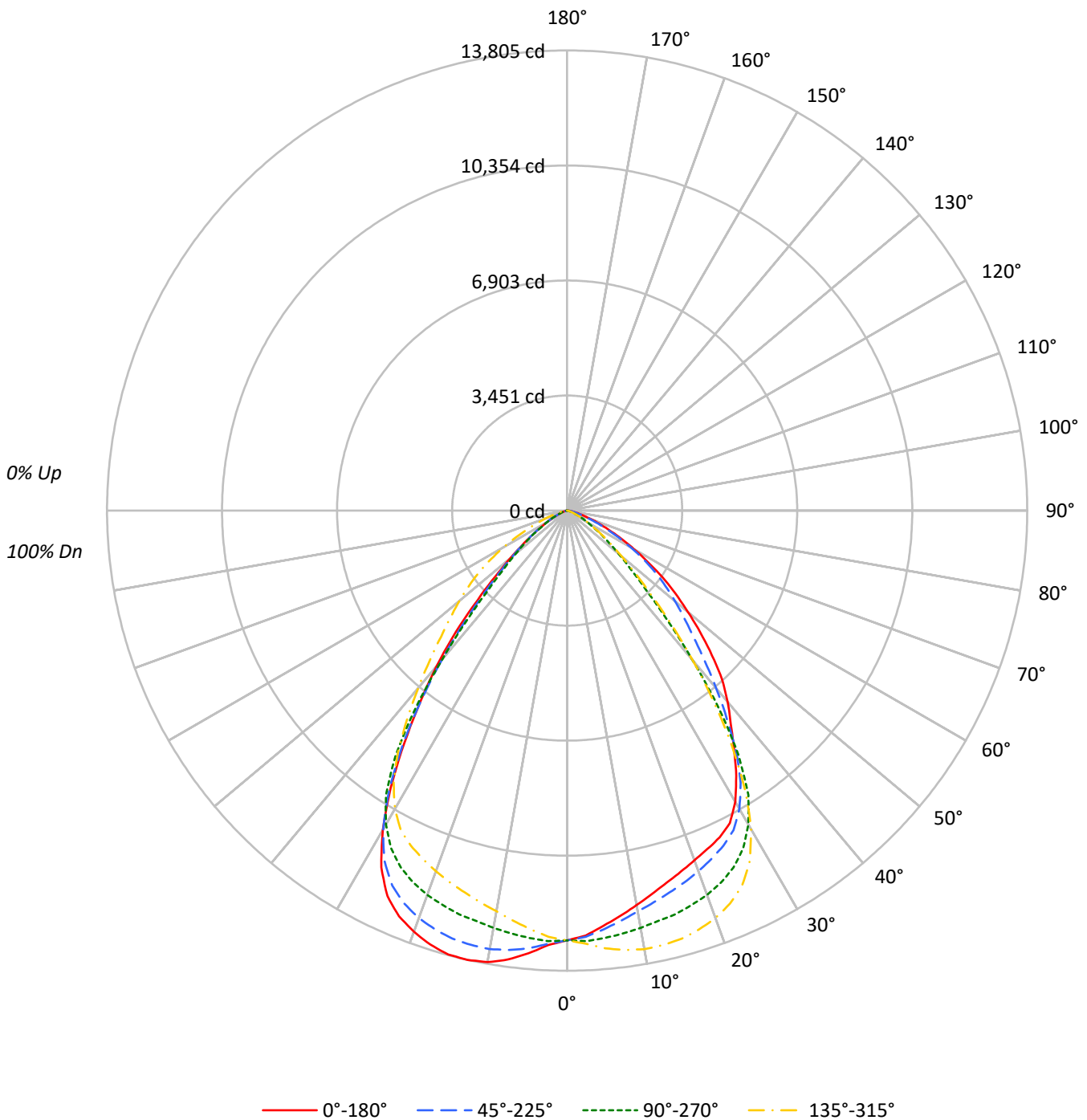
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	397545	397545	397545	397545
5°	386985	398478	412705	398478
10°	376280	397957	430678	397957
15°	368762	400319	440106	400319
20°	366252	402611	441238	402611
25°	368178	401801	434148	401801
30°	359072	387091	394049	387091
35°	328442	337680	320386	337680
40°	301542	234894	245295	234894
45°	267930	143300	165806	143300
50°	226787	95725	106303	95725
55°	187832	65320	69035	65320
60°	143259	43479	43862	43479
65°	101502	27092	24801	27092
70°	73209	18149	16472	18149
75°	46489	9019	7506	9019
80°	32444	6712	5576	6712
85°	28977	0	2194	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1227.1	5.7
10°-20°	3553.4	16.4
20°-30°	5380.6	24.8
30°-40°	5392.7	24.8
40°-50°	3386.3	15.6
50°-60°	1804.6	8.3
60°-70°	742.1	3.4
70°-80°	196.0	0.9
80°-90°	33.2	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°	10161.1	46.8
0°-40°	15553.8	71.6
0°-60°	20744.7	95.5
0°-90°	21716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21716.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	12892	12892	12892	12892	12892	
5°	12502	12873	13333	12873	12502	###
15°	11551	12540	13786	12540	11551	3267
25°	10821	11809	12760	11809	10821	4963
35°	8725	8970	8511	8970	8725	5466
45°	6144	3286	3802	3286	6144	4725
55°	3494	1215	1284	1215	3494	3115
65°	1391	371	340	371	1391	1443
75°	390	76	63	76	390	442
85°	82	0	6	0	82	90
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°	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1
2.5°	12760.0	12747.3	12741.0	12753.7	12760.0	12785.1	12778.9	12791.3	12791.3	12797.8	12810.2
5°	12501.9	12495.4	12501.9	12501.9	12527.0	12552.2	12545.9	12564.9	12577.3	12608.9	12621.3
7.5°	12262.7	12262.7	12256.3	12281.4	12294.1	12331.9	12325.4	12357.0	12376.0	12407.3	12451.4
10°	12017.1	12017.1	12023.3	12042.2	12048.7	12105.2	12105.2	12149.2	12174.4	12206.0	12262.7
12.5°	11777.9	11777.9	11815.8	11803.1	11828.2	11872.3	11891.2	11935.2	11973.1	12036.0	12092.8
15°	11551.2	11551.2	11563.9	11595.3	11614.2	11670.9	11702.3	11752.8	11796.9	11859.8	11941.7
17.5°	11356.1	11349.9	11356.1	11393.9	11431.8	11482.0	11507.2	11570.1	11614.2	11696.1	11771.7
20°	11161.0	11173.7	11173.7	11205.1	11230.2	11293.2	11318.3	11387.7	11438.0	11513.4	11601.8
22.5°	10991.0	10984.8	10984.8	11028.9	11047.8	11104.3	11129.4	11192.4	11249.1	11312.1	11393.9
25°	10821.1	10808.4	10833.8	10840.0	10852.4	10915.4	10934.3	10978.3	11035.1	11091.8	11173.7
27.5°	10569.2	10556.8	10563.0	10588.1	10607.0	10657.3	10670.0	10714.1	10758.1	10808.4	10877.8
30°	10084.4	10072.0	10065.8	10109.8	10128.7	10166.3	10185.2	10260.9	10273.3	10330.1	10380.3
32.5°	9442.4	9436.1	9448.8	9486.4	9505.3	9555.8	9581.0	9625.0	9656.4	9688.0	9738.3
35°	8724.9	8712.2	8724.9	8762.7	8762.7	8806.8	8825.7	8844.3	8838.1	8844.3	8831.9
37.5°	8057.7	8051.2	8057.7	8076.3	8057.7	8076.3	8057.7	8019.9	7950.7	7875.0	7799.4
40°	7491.0	7497.2	7459.7	7484.8	7415.4	7402.9	7333.7	7239.2	7100.8	6949.8	6735.7
42.5°	6886.8	6867.9	6842.7	6855.2	6798.7	6754.4	6641.2	6521.7	6345.3	6093.7	5835.3
45°	6143.9	6137.7	6125.0	6118.8	6081.0	6036.9	5942.3	5804.0	5608.9	5350.8	5042.2
47.5°	5420.0	5401.1	5401.1	5407.3	5363.2	5357.0	5281.4	5161.9	4991.9	4740.1	4419.1
50°	4727.4	4721.2	4733.9	4759.0	4727.4	4715.0	4664.7	4582.8	4431.8	4217.7	3915.4
52.5°	4104.2	4098.0	4110.7	4142.1	4129.4	4142.1	4091.8	4028.8	3928.1	3720.3	3456.0
55°	3493.8	3493.8	3493.8	3531.4	3531.4	3531.4	3506.2	3468.7	3374.1	3223.0	2977.7
57.5°	2857.9	2864.2	2902.0	2908.2	2902.0	2914.7	2908.2	2870.4	2807.7	2700.7	2511.8
60°	2322.9	2322.9	2341.8	2360.7	2354.2	2360.7	2360.7	2341.8	2278.8	2190.7	2039.7
62.5°	1838.1	1857.0	1844.3	1857.0	1882.1	1857.0	1844.3	1831.9	1787.8	1731.1	1605.2
65°	1391.1	1403.8	1403.8	1410.1	1397.4	1403.8	1378.7	1359.8	1334.7	1271.7	1189.8
67.5°	1057.7	1057.7	1057.7	1057.7	1051.2	1045.0	1038.8	1019.8	975.8	950.7	862.3
70°	812.0	774.2	774.2	774.2	774.2	780.7	761.8	736.6	723.9	679.9	616.9
72.5°	541.3	554.0	541.3	541.3	528.8	535.1	509.9	497.2	484.8	459.7	421.8
75°	390.2	358.9	371.3	377.8	358.9	371.3	346.2	321.0	321.0	302.1	283.2
77.5°	251.9	245.6	251.9	258.1	251.9	245.6	232.9	220.2	220.2	214.0	195.1
80°	182.7	176.2	176.2	176.2	170.0	176.2	163.8	163.8	151.1	144.8	132.1
82.5°	119.7	119.7	113.2	119.7	113.2	119.7	100.8	100.8	100.8	94.3	81.9
85°	81.9	69.2	69.2	75.7	63.0	75.7	69.2	63.0	56.7	56.7	50.3
87.5°	37.8	44.0	37.8	44.0	37.8	37.8	44.0	37.8	37.8	25.1	25.1
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°	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1
2.5°	12829.1	12835.4	12835.4	12860.7	12873.2	12879.4	12879.4	12929.9	12911.0	12923.7	12936.1
5°	12646.7	12684.3	12697.0	12697.0	12766.2	12791.3	12816.4	12873.2	12879.4	12917.2	12961.3
7.5°	12470.3	12514.3	12539.7	12596.2	12640.3	12684.3	12760.0	12797.8	12835.4	12885.9	12942.4
10°	12300.3	12350.8	12401.1	12445.1	12514.3	12571.1	12621.3	12709.4	12753.7	12822.9	12898.3
12.5°	12136.8	12206.0	12250.0	12325.4	12401.1	12451.4	12527.0	12608.9	12678.1	12747.3	12835.4
15°	11992.0	12073.8	12124.1	12206.0	12287.9	12357.0	12438.9	12539.7	12590.0	12671.9	12753.7
17.5°	11834.4	11922.8	11985.7	12061.1	12161.9	12237.3	12306.8	12407.3	12470.3	12558.4	12652.9
20°	11670.9	11759.0	11834.4	11910.1	12010.9	12086.3	12168.2	12269.0	12338.1	12426.2	12501.9
22.5°	11475.8	11557.7	11639.3	11727.4	11828.2	11891.2	11985.7	12073.8	12149.2	12231.1	12306.8
25°	11224.0	11324.8	11387.7	11469.3	11551.2	11620.4	11721.2	11809.3	11872.3	11947.9	12017.1
27.5°	10928.1	11003.7	11054.0	11123.2	11205.1	11268.0	11343.4	11431.8	11494.7	11563.9	11614.2
30°	10424.4	10493.8	10537.9	10588.1	10670.0	10726.7	10789.7	10871.3	10915.4	10965.9	11010.0
32.5°	9763.4	9820.1	9845.3	9883.1	9939.8	9996.3	10046.9	10116.0	10134.9	10166.3	10166.3
35°	8806.8	8819.2	8813.0	8825.7	8850.8	8882.2	8926.2	8970.3	8995.4	8995.4	8976.7
37.5°	7686.1	7610.7	7528.9	7465.9	7447.0	7434.3	7459.7	7478.3	7503.7	7516.2	7484.8
40°	6521.7	6351.7	6169.1	6005.3	5892.1	5841.8	5822.9	5835.3	5835.3	5879.4	5879.4
42.5°	5520.8	5256.2	4985.7	4740.1	4576.3	4450.7	4393.9	4393.9	4400.1	4431.8	4450.7
45°	4689.8	4356.1	4041.3	3770.8	3544.1	3380.3	3304.9	3286.0	3279.8	3292.2	3336.3
47.5°	4054.0	3707.8	3380.3	3046.8	2807.7	2643.9	2574.7	2549.3	2524.2	2549.3	2555.8
50°	3556.8	3197.9	2851.7	2518.0	2266.1	2121.3	2033.2	1995.4	1989.2	1989.2	2001.9
52.5°	3103.3	2769.8	2423.7	2083.7	1819.2	1680.8	1598.9	1580.0	1554.9	1580.0	1580.0
55°	2675.3	2341.8	2001.9	1680.8	1460.3	1315.7	1240.1	1215.0	1202.3	1221.2	1221.2
57.5°	2209.7	1926.2	1611.6	1322.0	1101.7	1000.9	944.2	912.8	906.4	919.1	906.4
60°	1813.0	1573.8	1303.0	1038.8	868.8	761.8	717.7	705.0	692.3	705.0	705.0
62.5°	1435.2	1233.9	1013.4	812.0	667.2	591.8	541.3	541.3	535.1	535.1	541.3
65°	1063.9	906.4	749.1	579.1	465.9	409.1	371.3	371.3	365.1	371.3	365.1
67.5°	774.2	667.2	541.3	421.8	333.7	302.1	277.0	258.1	270.8	258.1	251.9
70°	566.7	478.3	390.2	321.0	258.1	226.7	207.8	201.3	188.9	188.9	188.9
72.5°	377.8	321.0	264.3	207.8	170.0	138.4	132.1	119.7	107.0	113.2	125.9
75°	251.9	214.0	188.9	151.1	113.2	113.2	75.7	75.7	63.0	75.7	56.7
77.5°	176.2	144.8	113.2	94.3	75.7	69.2	50.3	50.3	44.0	44.0	44.0
80°	125.9	107.0	81.9	69.2	50.3	50.3	44.0	37.8	31.4	31.4	37.8
82.5°	75.7	56.7	56.7	50.3	31.4	25.1	18.9	25.1	12.7	12.7	12.7
85°	44.0	37.8	31.4	18.9	12.7	12.7	6.2	0.0	6.2	6.2	0.0
87.5°	25.1	12.7	12.7	6.2	0.0	6.2	6.2	0.0	0.0	0.0	12.7
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°	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1
2.5°	12967.8	12961.3	12974.0	12974.0	13011.8	13005.3	13024.2	13024.2	13011.8	13018.0	13043.2
5°	13011.8	13030.7	13068.3	13099.9	13156.4	13181.8	13213.1	13244.7	13251.0	13269.9	13288.8
7.5°	13011.8	13074.8	13118.8	13175.3	13251.0	13295.0	13364.2	13420.9	13446.1	13477.4	13515.3
10°	12986.4	13049.4	13131.3	13194.2	13288.8	13358.0	13427.2	13515.3	13553.1	13603.3	13653.9
12.5°	12936.1	13005.3	13093.4	13175.3	13282.3	13345.3	13433.4	13515.3	13572.0	13641.2	13697.9
15°	12860.7	12942.4	13024.2	13106.1	13219.4	13295.0	13376.9	13471.2	13527.9	13603.3	13653.9
17.5°	12741.0	12829.1	12904.8	12980.2	13087.2	13175.3	13251.0	13339.1	13395.8	13458.8	13527.9
20°	12596.2	12678.1	12760.0	12822.9	12929.9	13005.3	13087.2	13169.1	13213.1	13225.8	13332.8
22.5°	12413.8	12470.3	12533.2	12634.0	12697.0	12766.2	12841.8	12917.2	12961.3	13030.7	13068.3
25°	12111.4	12168.2	12237.3	12281.4	12357.0	12413.8	12489.2	12571.1	12596.2	12646.7	12684.3
27.5°	11689.8	11721.2	11752.8	11790.4	11834.4	11866.0	11910.1	11947.9	11973.1	11998.2	12023.3
30°	11022.4	11022.4	11022.4	10997.3	11016.2	11035.1	11041.3	11035.1	11035.1	11028.9	11028.9
32.5°	10141.2	10090.9	10034.2	9983.9	9965.0	9939.8	9927.1	9908.2	9876.9	9858.0	9864.2
35°	8951.4	8838.1	8768.9	8706.0	8655.7	8617.9	8599.0	8580.1	8573.8	8548.7	8523.3
37.5°	7465.9	7384.0	7333.7	7295.9	7251.9	7214.0	7220.3	7226.7	7245.4	7233.0	7239.2
40°	5892.1	5873.2	5892.1	5848.0	5835.3	5848.0	5879.4	5923.7	5948.8	5974.0	6018.0
42.5°	4482.0	4513.4	4557.7	4557.7	4576.3	4601.7	4639.3	4708.7	4746.3	4790.4	4840.9
45°	3374.1	3411.9	3468.7	3487.3	3500.0	3531.4	3575.7	3632.2	3657.3	3695.1	3739.2
47.5°	2599.9	2625.0	2656.4	2688.0	2719.3	2732.0	2776.1	2776.1	2807.7	2832.8	2845.2
50°	2027.0	2052.1	2077.3	2096.2	2108.9	2127.8	2140.2	2159.1	2165.4	2178.0	2184.3
52.5°	1586.2	1617.9	1617.9	1630.3	1649.2	1668.1	1661.9	1668.1	1674.3	1674.3	1693.3
55°	1240.1	1240.1	1259.0	1259.0	1271.7	1265.2	1271.7	1271.7	1271.7	1271.7	1277.9
57.5°	925.3	931.7	950.7	938.0	931.7	944.2	931.7	944.2	938.0	950.7	931.7
60°	711.2	711.2	717.7	717.7	723.9	723.9	723.9	717.7	717.7	711.2	711.2
62.5°	535.1	541.3	547.8	541.3	541.3	541.3	535.1	535.1	528.8	522.4	522.4
65°	358.9	352.6	365.1	352.6	358.9	358.9	352.6	358.9	339.9	346.2	339.9
67.5°	258.1	251.9	245.6	251.9	245.6	239.2	239.2	245.6	251.9	232.9	232.9
70°	170.0	176.2	170.0	176.2	182.7	182.7	176.2	170.0	176.2	163.8	170.0
72.5°	107.0	107.0	107.0	107.0	107.0	113.2	113.2	113.2	100.8	100.8	94.3
75°	50.3	69.2	56.7	50.3	69.2	69.2	63.0	63.0	56.7	56.7	56.7
77.5°	50.3	37.8	37.8	37.8	37.8	37.8	37.8	37.8	31.4	37.8	31.4
80°	25.1	25.1	25.1	18.9	25.1	25.1	31.4	25.1	25.1	18.9	31.4
82.5°	12.7	12.7	12.7	0.0	6.2	12.7	12.7	6.2	12.7	12.7	6.2
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: P248694

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1
2.5°	13036.9	13030.7	13036.9	13043.2	13036.9	13030.7	13036.9	13043.2	13018.0	13011.8	13024.2
5°	13313.9	13313.9	13326.4	13332.8	13326.4	13313.9	13313.9	13288.8	13269.9	13251.0	13244.7
7.5°	13553.1	13565.8	13578.2	13584.4	13578.2	13565.8	13553.1	13515.3	13477.4	13446.1	13420.9
10°	13697.9	13716.8	13742.0	13754.4	13742.0	13716.8	13697.9	13653.9	13603.3	13553.1	13515.3
12.5°	13760.9	13779.8	13811.2	13804.9	13811.2	13779.8	13760.9	13697.9	13641.2	13572.0	13515.3
15°	13716.8	13742.0	13773.3	13786.0	13773.3	13742.0	13716.8	13653.9	13603.3	13527.9	13471.2
17.5°	13578.2	13616.0	13635.0	13653.9	13635.0	13616.0	13578.2	13527.9	13458.8	13395.8	13339.1
20°	13389.3	13414.7	13439.9	13446.1	13439.9	13414.7	13389.3	13332.8	13225.8	13213.1	13169.1
22.5°	13118.8	13137.7	13194.2	13175.3	13194.2	13137.7	13118.8	13068.3	13030.7	12961.3	12917.2
25°	12728.3	12747.3	12753.7	12760.0	12753.7	12747.3	12728.3	12684.3	12646.7	12596.2	12571.1
27.5°	12054.9	12054.9	12067.4	12073.8	12067.4	12054.9	12054.9	12023.3	11998.2	11973.1	11947.9
30°	11035.1	11035.1	11035.1	11066.7	11035.1	11035.1	11035.1	11028.9	11028.9	11035.1	11035.1
32.5°	9858.0	9845.3	9832.8	9845.3	9832.8	9845.3	9858.0	9864.2	9858.0	9876.9	9908.2
35°	8523.3	8517.1	8536.0	8510.9	8536.0	8517.1	8523.3	8523.3	8548.7	8573.8	8580.1
37.5°	7245.4	7233.0	7258.1	7233.0	7258.1	7233.0	7245.4	7239.2	7233.0	7245.4	7226.7
40°	6030.7	6043.1	6043.1	6093.7	6043.1	6043.1	6030.7	6018.0	5974.0	5948.8	5923.7
42.5°	4866.0	4903.8	4891.2	4929.0	4891.2	4903.8	4866.0	4840.9	4790.4	4746.3	4708.7
45°	3764.3	3789.7	3789.7	3802.1	3789.7	3789.7	3764.3	3739.2	3695.1	3657.3	3632.2
47.5°	2889.3	2889.3	2889.3	2895.8	2889.3	2889.3	2889.3	2845.2	2832.8	2807.7	2776.1
50°	2197.0	2203.2	2209.7	2215.9	2209.7	2203.2	2197.0	2184.3	2178.0	2165.4	2159.1
52.5°	1687.0	1693.3	1680.8	1693.3	1680.8	1693.3	1687.0	1693.3	1674.3	1674.3	1668.1
55°	1277.9	1271.7	1277.9	1284.1	1277.9	1271.7	1277.9	1277.9	1271.7	1271.7	1271.7
57.5°	938.0	925.3	925.3	925.3	925.3	925.3	938.0	931.7	950.7	938.0	944.2
60°	698.8	705.0	705.0	711.2	705.0	705.0	698.8	711.2	711.2	717.7	717.7
62.5°	516.1	535.1	522.4	535.1	522.4	535.1	516.1	522.4	522.4	528.8	535.1
65°	333.7	333.7	333.7	339.9	333.7	333.7	333.7	339.9	346.2	339.9	358.9
67.5°	226.7	232.9	245.6	239.2	245.6	232.9	226.7	232.9	232.9	251.9	245.6
70°	182.7	163.8	163.8	182.7	163.8	163.8	182.7	170.0	163.8	176.2	170.0
72.5°	107.0	94.3	107.0	107.0	107.0	94.3	107.0	94.3	100.8	100.8	113.2
75°	56.7	50.3	44.0	63.0	44.0	50.3	56.7	56.7	56.7	56.7	63.0
77.5°	37.8	31.4	44.0	44.0	44.0	31.4	37.8	31.4	37.8	31.4	37.8
80°	18.9	25.1	18.9	31.4	18.9	25.1	18.9	31.4	18.9	25.1	25.1
82.5°	6.2	12.7	12.7	12.7	12.7	12.7	6.2	6.2	12.7	12.7	6.2
85°	0.0	12.7	6.2	6.2	6.2	12.7	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	0.0	0.0	6.2	0.0	0.0	6.2	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: P248694

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1
2.5°	13024.2	13005.3	13011.8	12974.0	12974.0	12961.3	12967.8	12936.1	12923.7	12911.0	12929.9
5°	13213.1	13181.8	13156.4	13099.9	13068.3	13030.7	13011.8	12961.3	12917.2	12879.4	12873.2
7.5°	13364.2	13295.0	13251.0	13175.3	13118.8	13074.8	13011.8	12942.4	12885.9	12835.4	12797.8
10°	13427.2	13358.0	13288.8	13194.2	13131.3	13049.4	12986.4	12898.3	12822.9	12753.7	12709.4
12.5°	13433.4	13345.3	13282.3	13175.3	13093.4	13005.3	12936.1	12835.4	12747.3	12678.1	12608.9
15°	13376.9	13295.0	13219.4	13106.1	13024.2	12942.4	12860.7	12753.7	12671.9	12590.0	12539.7
17.5°	13251.0	13175.3	13087.2	12980.2	12904.8	12829.1	12741.0	12652.9	12558.4	12470.3	12407.3
20°	13087.2	13005.3	12929.9	12822.9	12760.0	12678.1	12596.2	12501.9	12426.2	12338.1	12269.0
22.5°	12841.8	12766.2	12697.0	12634.0	12533.2	12470.3	12413.8	12306.8	12231.1	12149.2	12073.8
25°	12489.2	12413.8	12357.0	12281.4	12237.3	12168.2	12111.4	12017.1	11947.9	11872.3	11809.3
27.5°	11910.1	11866.0	11834.4	11790.4	11752.8	11721.2	11689.8	11614.2	11563.9	11494.7	11431.8
30°	11041.3	11035.1	11016.2	10997.3	11022.4	11022.4	11022.4	11010.0	10965.9	10915.4	10871.3
32.5°	9927.1	9939.8	9965.0	9983.9	10034.2	10090.9	10141.2	10166.3	10166.3	10134.9	10116.0
35°	8599.0	8617.9	8655.7	8706.0	8768.9	8838.1	8951.4	8976.7	8995.4	8995.4	8970.3
37.5°	7220.3	7214.0	7251.9	7295.9	7333.7	7384.0	7465.9	7484.8	7516.2	7503.7	7478.3
40°	5879.4	5848.0	5835.3	5848.0	5892.1	5873.2	5892.1	5879.4	5879.4	5835.3	5835.3
42.5°	4639.3	4601.7	4576.3	4557.7	4557.7	4513.4	4482.0	4450.7	4431.8	4400.1	4393.9
45°	3575.7	3531.4	3500.0	3487.3	3468.7	3411.9	3374.1	3336.3	3292.2	3279.8	3286.0
47.5°	2776.1	2732.0	2719.3	2688.0	2656.4	2625.0	2599.9	2555.8	2549.3	2524.2	2549.3
50°	2140.2	2127.8	2108.9	2096.2	2077.3	2052.1	2027.0	2001.9	1989.2	1989.2	1995.4
52.5°	1661.9	1668.1	1649.2	1630.3	1617.9	1617.9	1586.2	1580.0	1580.0	1554.9	1580.0
55°	1271.7	1265.2	1271.7	1259.0	1259.0	1240.1	1240.1	1221.2	1221.2	1202.3	1215.0
57.5°	931.7	944.2	931.7	938.0	950.7	931.7	925.3	906.4	919.1	906.4	912.8
60°	723.9	723.9	723.9	717.7	717.7	711.2	711.2	705.0	705.0	692.3	705.0
62.5°	535.1	541.3	541.3	541.3	547.8	541.3	535.1	541.3	535.1	535.1	541.3
65°	352.6	358.9	358.9	352.6	365.1	352.6	358.9	365.1	371.3	365.1	371.3
67.5°	239.2	239.2	245.6	251.9	245.6	251.9	258.1	251.9	258.1	270.8	258.1
70°	176.2	182.7	182.7	176.2	170.0	176.2	170.0	188.9	188.9	188.9	201.3
72.5°	113.2	113.2	107.0	107.0	107.0	107.0	107.0	125.9	113.2	107.0	119.7
75°	63.0	69.2	69.2	50.3	56.7	69.2	50.3	56.7	75.7	63.0	75.7
77.5°	37.8	37.8	37.8	37.8	37.8	37.8	50.3	44.0	44.0	44.0	50.3
80°	31.4	25.1	25.1	18.9	25.1	25.1	25.1	37.8	31.4	31.4	37.8
82.5°	12.7	12.7	6.2	0.0	12.7	12.7	12.7	12.7	12.7	12.7	25.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	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: P248694

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1
2.5°	12879.4	12879.4	12873.2	12860.7	12835.4	12835.4	12829.1	12810.2	12797.8	12791.3	12791.3
5°	12816.4	12791.3	12766.2	12697.0	12697.0	12684.3	12646.7	12621.3	12608.9	12577.3	12564.9
7.5°	12760.0	12684.3	12640.3	12596.2	12539.7	12514.3	12470.3	12451.4	12407.3	12376.0	12357.0
10°	12621.3	12571.1	12514.3	12445.1	12401.1	12350.8	12300.3	12262.7	12206.0	12174.4	12149.2
12.5°	12527.0	12451.4	12401.1	12325.4	12250.0	12206.0	12136.8	12092.8	12036.0	11973.1	11935.2
15°	12438.9	12357.0	12287.9	12206.0	12124.1	12073.8	11992.0	11941.7	11859.8	11796.9	11752.8
17.5°	12306.8	12237.3	12161.9	12061.1	11985.7	11922.8	11834.4	11771.7	11696.1	11614.2	11570.1
20°	12168.2	12086.3	12010.9	11910.1	11834.4	11759.0	11670.9	11601.8	11513.4	11438.0	11387.7
22.5°	11985.7	11891.2	11828.2	11727.4	11639.3	11557.7	11475.8	11393.9	11312.1	11249.1	11192.4
25°	11721.2	11620.4	11551.2	11469.3	11387.7	11324.8	11224.0	11173.7	11091.8	11035.1	10978.3
27.5°	11343.4	11268.0	11205.1	11123.2	11054.0	11003.7	10928.1	10877.8	10808.4	10758.1	10714.1
30°	10789.7	10726.7	10670.0	10588.1	10537.9	10493.8	10424.4	10380.3	10330.1	10273.3	10260.9
32.5°	10046.9	9996.3	9939.8	9883.1	9845.3	9820.1	9763.4	9738.3	9688.0	9656.4	9625.0
35°	8926.2	8882.2	8850.8	8825.7	8813.0	8819.2	8806.8	8831.9	8844.3	8838.1	8844.3
37.5°	7459.7	7434.3	7447.0	7465.9	7528.9	7610.7	7686.1	7799.4	7875.0	7950.7	8019.9
40°	5822.9	5841.8	5892.1	6005.3	6169.1	6351.7	6521.7	6735.7	6949.8	7100.8	7239.2
42.5°	4393.9	4450.7	4576.3	4740.1	4985.7	5256.2	5520.8	5835.3	6093.7	6345.3	6521.7
45°	3304.9	3380.3	3544.1	3770.8	4041.3	4356.1	4689.8	5042.2	5350.8	5608.9	5804.0
47.5°	2574.7	2643.9	2807.7	3046.8	3380.3	3707.8	4054.0	4419.1	4740.1	4991.9	5161.9
50°	2033.2	2121.3	2266.1	2518.0	2851.7	3197.9	3556.8	3915.4	4217.7	4431.8	4582.8
52.5°	1598.9	1680.8	1819.2	2083.7	2423.7	2769.8	3103.3	3456.0	3720.3	3928.1	4028.8
55°	1240.1	1315.7	1460.3	1680.8	2001.9	2341.8	2675.3	2977.7	3223.0	3374.1	3468.7
57.5°	944.2	1000.9	1101.7	1322.0	1611.6	1926.2	2209.7	2511.8	2700.7	2807.7	2870.4
60°	717.7	761.8	868.8	1038.8	1303.0	1573.8	1813.0	2039.7	2190.7	2278.8	2341.8
62.5°	541.3	591.8	667.2	812.0	1013.4	1233.9	1435.2	1605.2	1731.1	1787.8	1831.9
65°	371.3	409.1	465.9	579.1	749.1	906.4	1063.9	1189.8	1271.7	1334.7	1359.8
67.5°	277.0	302.1	333.7	421.8	541.3	667.2	774.2	862.3	950.7	975.8	1019.8
70°	207.8	226.7	258.1	321.0	390.2	478.3	566.7	616.9	679.9	723.9	736.6
72.5°	132.1	138.4	170.0	207.8	264.3	321.0	377.8	421.8	459.7	484.8	497.2
75°	75.7	113.2	113.2	151.1	188.9	214.0	251.9	283.2	302.1	321.0	321.0
77.5°	50.3	69.2	75.7	94.3	113.2	144.8	176.2	195.1	214.0	220.2	220.2
80°	44.0	50.3	50.3	69.2	81.9	107.0	125.9	132.1	144.8	151.1	163.8
82.5°	18.9	25.1	31.4	50.3	56.7	56.7	75.7	81.9	94.3	100.8	100.8
85°	6.2	12.7	12.7	18.9	31.4	37.8	44.0	50.3	56.7	56.7	63.0
87.5°	6.2	6.2	0.0	6.2	12.7	12.7	25.1	25.1	25.1	37.8	37.8
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: P248694

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1	12892.1
2.5°	12778.9	12785.1	12760.0	12753.7	12741.0	12747.3	12760.0
5°	12545.9	12552.2	12527.0	12501.9	12501.9	12495.4	12501.9
7.5°	12325.4	12331.9	12294.1	12281.4	12256.3	12262.7	12262.7
10°	12105.2	12105.2	12048.7	12042.2	12023.3	12017.1	12017.1
12.5°	11891.2	11872.3	11828.2	11803.1	11815.8	11777.9	11777.9
15°	11702.3	11670.9	11614.2	11595.3	11563.9	11551.2	11551.2
17.5°	11507.2	11482.0	11431.8	11393.9	11356.1	11349.9	11356.1
20°	11318.3	11293.2	11230.2	11205.1	11173.7	11173.7	11161.0
22.5°	11129.4	11104.3	11047.8	11028.9	10984.8	10984.8	10991.0
25°	10934.3	10915.4	10852.4	10840.0	10833.8	10808.4	10821.1
27.5°	10670.0	10657.3	10607.0	10588.1	10563.0	10556.8	10569.2
30°	10185.2	10166.3	10128.7	10109.8	10065.8	10072.0	10084.4
32.5°	9581.0	9555.8	9505.3	9486.4	9448.8	9436.1	9442.4
35°	8825.7	8806.8	8762.7	8762.7	8724.9	8712.2	8724.9
37.5°	8057.7	8076.3	8057.7	8076.3	8057.7	8051.2	8057.7
40°	7333.7	7402.9	7415.4	7484.8	7459.7	7497.2	7491.0
42.5°	6641.2	6754.4	6798.7	6855.2	6842.7	6867.9	6886.8
45°	5942.3	6036.9	6081.0	6118.8	6125.0	6137.7	6143.9
47.5°	5281.4	5357.0	5363.2	5407.3	5401.1	5401.1	5420.0
50°	4664.7	4715.0	4727.4	4759.0	4733.9	4721.2	4727.4
52.5°	4091.8	4142.1	4129.4	4142.1	4110.7	4098.0	4104.2
55°	3506.2	3531.4	3531.4	3531.4	3493.8	3493.8	3493.8
57.5°	2908.2	2914.7	2902.0	2908.2	2902.0	2864.2	2857.9
60°	2360.7	2360.7	2354.2	2360.7	2341.8	2322.9	2322.9
62.5°	1844.3	1857.0	1882.1	1857.0	1844.3	1857.0	1838.1
65°	1378.7	1403.8	1397.4	1410.1	1403.8	1403.8	1391.1
67.5°	1038.8	1045.0	1051.2	1057.7	1057.7	1057.7	1057.7
70°	761.8	780.7	774.2	774.2	774.2	774.2	812.0
72.5°	509.9	535.1	528.8	541.3	541.3	554.0	541.3
75°	346.2	371.3	358.9	377.8	371.3	358.9	390.2
77.5°	232.9	245.6	251.9	258.1	251.9	245.6	251.9
80°	163.8	176.2	170.0	176.2	176.2	176.2	182.7
82.5°	100.8	119.7	113.2	119.7	113.2	119.7	119.7
85°	69.2	75.7	63.0	75.7	69.2	69.2	81.9
87.5°	44.0	37.8	37.8	44.0	37.8	44.0	37.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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