

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: P248729

Luminaire Tested: **LD8B175D010 ER8B175940 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248729  
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: LD8B175D010 ER8B175940 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16200.0 lumens  
Efficiency: N/A  
Efficacy: 91.4 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

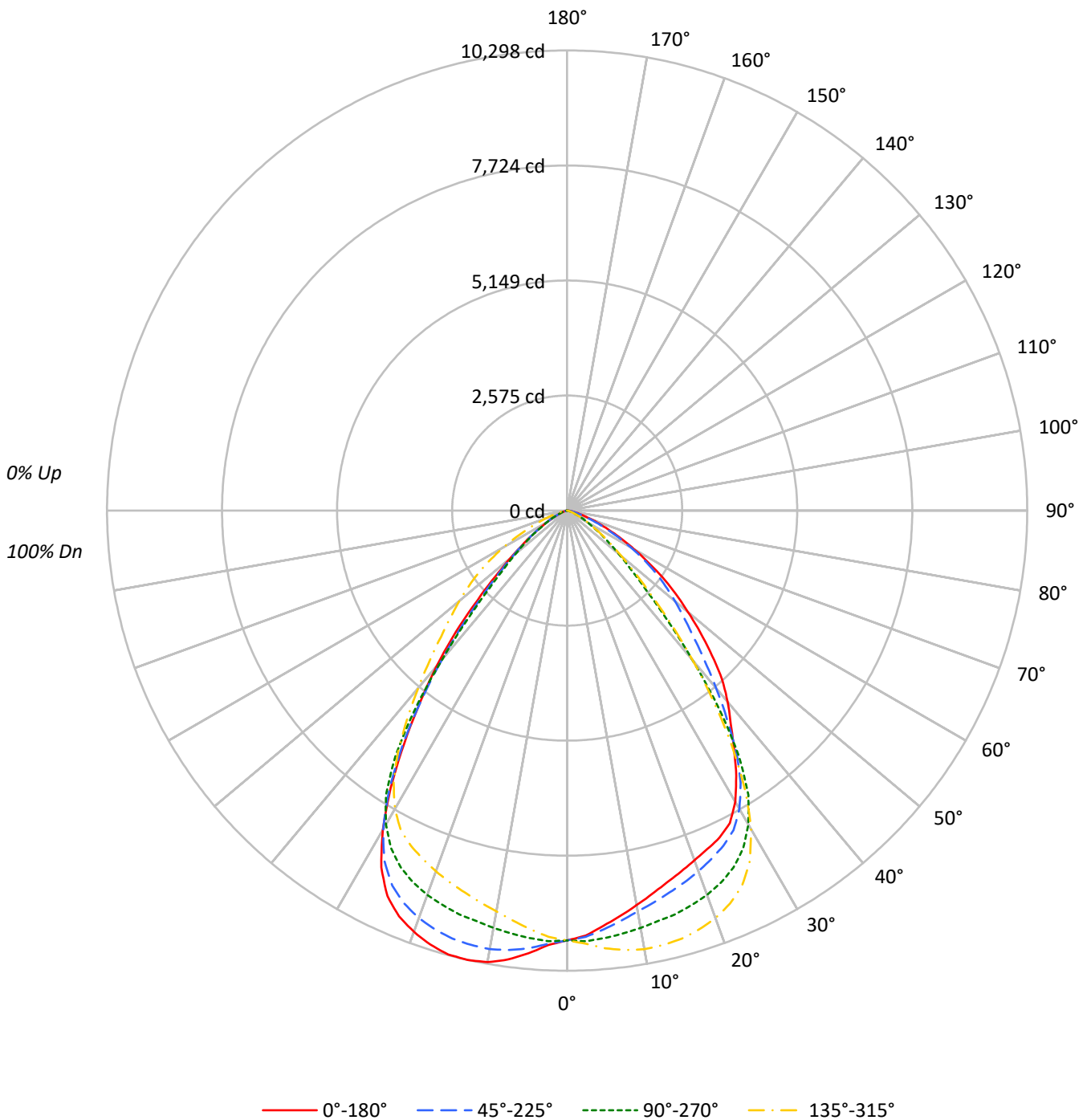
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	296565	296565	296565	296565
5°	288687	297262	307876	297262
10°	280703	296875	321283	296875
15°	275093	298637	328317	298637
20°	273220	300346	329161	300346
25°	274656	299742	323869	299742
30°	267866	288767	293958	288767
35°	245015	251907	239007	251907
40°	224951	175229	182986	175229
45°	199874	106899	123693	106899
50°	169181	71407	79299	71407
55°	140119	48724	51503	48724
60°	106872	32434	32723	32434
65°	75723	20211	18504	20211
70°	54619	13542	12289	13542
75°	34682	6720	5600	6720
80°	24204	5008	4155	5008
85°	21618	0	1628	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	915.4	5.7
10°-20°	2650.8	16.4
20°-30°	4013.9	24.8
30°-40°	4022.9	24.8
40°-50°	2526.2	15.6
50°-60°	1346.2	8.3
60°-70°	553.6	3.4
70°-80°	146.2	0.9
80°-90°	24.7	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°	7580.1	46.8
0°-40°	11603.0	71.6
0°-60°	15475.4	95.5
0°-90°	16200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16200.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	9617	9617	9617	9617	9617	
5°	9326	9603	9946	9603	9326	879
15°	8617	9355	10284	9355	8617	2437
25°	8072	8810	9519	8810	8072	3702
35°	6509	6692	6349	6692	6509	4078
45°	4583	2451	2836	2451	4583	3525
55°	2606	906	958	906	2606	2324
65°	1038	277	254	277	1038	1077
75°	291	56	47	56	291	330
85°	61	0	5	0	61	67
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°	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4
2.5°	9518.8	9509.4	9504.7	9514.2	9518.8	9537.6	9533.0	9542.2	9542.2	9547.1	9556.3
5°	9326.3	9321.5	9326.3	9326.3	9345.1	9363.8	9359.2	9373.3	9382.6	9406.2	9415.4
7.5°	9147.9	9147.9	9143.1	9161.8	9171.3	9199.5	9194.7	9218.3	9232.4	9255.8	9288.6
10°	8964.7	8964.7	8969.3	8983.4	8988.3	9030.4	9030.4	9063.3	9082.0	9105.6	9147.9
12.5°	8786.3	8786.3	8814.5	8805.0	8823.8	8856.6	8870.7	8903.6	8931.8	8978.8	9021.1
15°	8617.1	8617.1	8626.6	8650.0	8664.1	8706.4	8729.8	8767.5	8800.4	8847.4	8908.4
17.5°	8471.6	8467.0	8471.6	8499.8	8528.0	8565.5	8584.3	8631.3	8664.1	8725.2	8781.6
20°	8326.0	8335.5	8335.5	8358.9	8377.7	8424.6	8443.4	8495.2	8532.7	8588.9	8654.8
22.5°	8199.2	8194.6	8194.6	8227.5	8241.6	8283.7	8302.5	8349.4	8391.8	8438.7	8499.8
25°	8072.4	8063.0	8081.9	8086.6	8095.8	8142.8	8156.9	8189.8	8232.1	8274.4	8335.5
27.5°	7884.6	7875.3	7879.9	7898.7	7912.8	7950.3	7959.8	7992.6	8025.5	8063.0	8114.8
30°	7522.9	7513.6	7509.0	7541.9	7556.0	7584.0	7598.1	7654.5	7663.8	7706.2	7743.7
32.5°	7043.9	7039.3	7048.8	7076.8	7090.9	7128.6	7147.4	7180.2	7203.6	7227.2	7264.7
35°	6508.7	6499.2	6508.7	6536.9	6536.9	6569.8	6583.9	6597.8	6593.2	6597.8	6588.5
37.5°	6011.0	6006.2	6011.0	6024.9	6011.0	6024.9	6011.0	5982.8	5931.2	5874.7	5818.3
40°	5588.3	5592.9	5564.9	5583.6	5531.8	5522.5	5470.9	5400.4	5297.2	5184.5	5024.8
42.5°	5137.5	5123.4	5104.6	5113.9	5071.8	5038.7	4954.3	4865.2	4733.5	4545.8	4353.1
45°	4583.3	4578.7	4569.2	4564.6	4536.4	4503.5	4433.0	4329.7	4184.2	3991.7	3761.5
47.5°	4043.3	4029.2	4029.2	4033.8	4000.9	3996.3	3939.9	3850.8	3724.0	3536.1	3296.6
50°	3526.6	3522.0	3531.4	3550.2	3526.6	3517.3	3479.8	3418.8	3306.1	3146.4	2920.8
52.5°	3061.7	3057.1	3066.6	3090.0	3080.5	3090.0	3052.5	3005.5	2930.3	2775.3	2578.1
55°	2606.3	2606.3	2606.3	2634.4	2634.4	2634.4	2615.6	2587.6	2517.0	2404.4	2221.3
57.5°	2132.0	2136.6	2164.9	2169.5	2164.9	2174.3	2169.5	2141.3	2094.5	2014.7	1873.8
60°	1732.9	1732.9	1747.0	1761.1	1756.2	1761.1	1761.1	1747.0	1700.0	1634.3	1521.6
62.5°	1371.2	1385.3	1375.9	1385.3	1404.1	1385.3	1375.9	1366.6	1333.7	1291.4	1197.4
65°	1037.8	1047.3	1047.3	1051.9	1042.4	1047.3	1028.5	1014.4	995.6	948.7	887.6
67.5°	789.0	789.0	789.0	789.0	784.2	779.5	774.9	760.8	727.9	709.2	643.3
70°	605.8	577.6	577.6	577.6	577.6	582.4	568.3	549.5	540.1	507.2	460.2
72.5°	403.8	413.3	403.8	403.8	394.5	399.1	380.4	370.9	361.6	342.9	314.7
75°	291.1	267.7	277.0	281.8	267.7	277.0	258.2	239.5	239.5	225.4	211.3
77.5°	187.9	183.2	187.9	192.5	187.9	183.2	173.8	164.3	164.3	159.7	145.5
80°	136.3	131.4	131.4	131.4	126.8	131.4	122.2	122.2	112.7	108.1	98.6
82.5°	89.3	89.3	84.5	89.3	84.5	89.3	75.2	75.2	75.2	70.4	61.1
85°	61.1	51.6	51.6	56.4	47.0	56.4	51.6	47.0	42.3	42.3	37.5
87.5°	28.2	32.9	28.2	32.9	28.2	28.2	32.9	28.2	28.2	18.7	18.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4
2.5°	9570.5	9575.1	9575.1	9594.0	9603.3	9608.0	9608.0	9645.6	9631.5	9641.0	9650.3
5°	9434.4	9462.4	9471.9	9471.9	9523.5	9542.2	9561.0	9603.3	9608.0	9636.2	9669.0
7.5°	9302.7	9335.6	9354.6	9396.7	9429.5	9462.4	9518.8	9547.1	9575.1	9612.8	9654.9
10°	9175.9	9213.6	9251.1	9284.0	9335.6	9377.9	9415.4	9481.2	9514.2	9565.8	9622.1
12.5°	9054.0	9105.6	9138.4	9194.7	9251.1	9288.6	9345.1	9406.2	9457.8	9509.4	9575.1
15°	8945.9	9007.0	9044.5	9105.6	9166.7	9218.3	9279.4	9354.6	9392.0	9453.1	9514.2
17.5°	8828.4	8894.3	8941.3	8997.5	9072.7	9129.0	9180.8	9255.8	9302.7	9368.5	9439.0
20°	8706.4	8772.2	8828.4	8884.9	8960.0	9016.3	9077.4	9152.6	9204.2	9269.9	9326.3
22.5°	8560.9	8622.0	8682.9	8748.6	8823.8	8870.7	8941.3	9007.0	9063.3	9124.3	9180.8
25°	8373.0	8448.2	8495.2	8556.1	8617.1	8668.8	8743.9	8809.7	8856.6	8913.1	8964.7
27.5°	8152.3	8208.7	8246.2	8297.8	8358.9	8405.9	8462.1	8528.0	8575.0	8626.6	8664.1
30°	7776.5	7828.3	7861.2	7898.7	7959.8	8002.1	8049.1	8109.9	8142.8	8180.5	8213.4
32.5°	7283.4	7325.8	7344.5	7372.7	7415.1	7457.2	7494.9	7546.5	7560.6	7584.0	7584.0
35°	6569.8	6579.1	6574.4	6583.9	6602.7	6626.0	6658.9	6691.8	6710.5	6710.5	6696.6
37.5°	5733.8	5677.6	5616.5	5569.5	5555.4	5545.9	5564.9	5578.8	5597.7	5607.0	5583.6
40°	4865.2	4738.4	4602.1	4479.9	4395.5	4358.0	4343.8	4353.1	4353.1	4386.0	4386.0
42.5°	4118.5	3921.1	3719.3	3536.1	3413.9	3320.2	3277.8	3277.8	3282.5	3306.1	3320.2
45°	3498.6	3249.6	3014.8	2813.0	2643.8	2521.7	2465.4	2451.3	2446.7	2456.0	2488.8
47.5°	3024.2	2766.0	2521.7	2272.9	2094.5	1972.3	1920.7	1901.8	1883.0	1901.8	1906.6
50°	2653.3	2385.6	2127.4	1878.4	1690.5	1582.5	1516.8	1488.5	1483.9	1483.9	1493.4
52.5°	2315.1	2066.3	1808.1	1554.5	1357.1	1253.9	1192.8	1178.7	1159.9	1178.7	1178.7
55°	1995.7	1747.0	1493.4	1253.9	1089.4	981.5	925.1	906.3	896.9	911.0	911.0
57.5°	1648.4	1436.9	1202.3	986.2	821.9	746.7	704.4	681.0	676.1	685.6	676.1
60°	1352.5	1174.1	972.1	774.9	648.1	568.3	535.4	525.9	516.5	525.9	525.9
62.5°	1070.6	920.5	756.0	605.8	497.7	441.5	403.8	403.8	399.1	399.1	403.8
65°	793.7	676.1	558.8	432.0	347.5	305.2	277.0	277.0	272.3	277.0	272.3
67.5°	577.6	497.7	403.8	314.7	249.0	225.4	206.6	192.5	202.0	192.5	187.9
70°	422.7	356.8	291.1	239.5	192.5	169.1	155.0	150.2	140.9	140.9	140.9
72.5°	281.8	239.5	197.2	155.0	126.8	103.2	98.6	89.3	79.8	84.5	93.9
75°	187.9	159.7	140.9	112.7	84.5	84.5	56.4	56.4	47.0	56.4	42.3
77.5°	131.4	108.1	84.5	70.4	56.4	51.6	37.5	37.5	32.9	32.9	32.9
80°	93.9	79.8	61.1	51.6	37.5	37.5	32.9	28.2	23.4	23.4	28.2
82.5°	56.4	42.3	42.3	37.5	23.4	18.7	14.1	18.7	9.5	9.5	9.5
85°	32.9	28.2	23.4	14.1	9.5	9.5	4.6	0.0	4.6	4.6	0.0
87.5°	18.7	9.5	9.5	4.6	0.0	4.6	4.6	0.0	0.0	0.0	9.5
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°	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4
2.5°	9673.9	9669.0	9678.5	9678.5	9706.7	9701.9	9716.0	9716.0	9706.7	9711.4	9730.1
5°	9706.7	9720.8	9748.9	9772.4	9814.6	9833.5	9856.9	9880.5	9885.1	9899.2	9913.4
7.5°	9706.7	9753.7	9786.6	9828.7	9885.1	9918.0	9969.6	10011.9	10030.7	10054.1	10082.3
10°	9687.8	9734.8	9795.8	9842.8	9913.4	9965.0	10016.6	10082.3	10110.5	10148.0	10185.7
12.5°	9650.3	9701.9	9767.6	9828.7	9908.5	9955.5	10021.2	10082.3	10124.6	10176.2	10218.6
15°	9594.0	9654.9	9716.0	9777.1	9861.6	9918.0	9979.1	10049.4	10091.8	10148.0	10185.7
17.5°	9504.7	9570.5	9626.9	9683.1	9763.0	9828.7	9885.1	9950.9	9993.2	10040.2	10091.8
20°	9396.7	9457.8	9518.8	9565.8	9645.6	9701.9	9763.0	9824.1	9856.9	9866.4	9946.2
22.5°	9260.6	9302.7	9349.7	9424.9	9471.9	9523.5	9579.9	9636.2	9669.0	9720.8	9748.9
25°	9035.0	9077.4	9129.0	9161.8	9218.3	9260.6	9316.9	9377.9	9396.7	9434.4	9462.4
27.5°	8720.6	8743.9	8767.5	8795.6	8828.4	8852.0	8884.9	8913.1	8931.8	8950.6	8969.3
30°	8222.6	8222.6	8222.6	8203.9	8218.0	8232.1	8236.7	8232.1	8232.1	8227.5	8227.5
32.5°	7565.2	7527.7	7485.4	7447.9	7433.8	7415.1	7405.6	7391.5	7368.1	7354.0	7358.6
35°	6677.7	6593.2	6541.6	6494.6	6457.1	6428.9	6414.8	6400.7	6396.0	6377.3	6358.3
37.5°	5569.5	5508.4	5470.9	5442.7	5409.9	5381.6	5386.3	5391.1	5405.0	5395.7	5400.4
40°	4395.5	4381.3	4395.5	4362.6	4353.1	4362.6	4386.0	4419.0	4437.8	4456.5	4489.4
42.5°	3343.6	3366.9	3400.0	3400.0	3413.9	3432.9	3460.9	3512.7	3540.7	3573.6	3611.3
45°	2517.0	2545.3	2587.6	2601.5	2611.0	2634.4	2667.4	2709.6	2728.3	2756.5	2789.4
47.5°	1939.5	1958.2	1981.6	2005.2	2028.6	2038.1	2070.9	2070.9	2094.5	2113.3	2122.5
50°	1512.1	1530.9	1549.6	1563.7	1573.2	1587.3	1596.6	1610.7	1615.3	1624.8	1629.4
52.5°	1183.3	1206.9	1206.9	1216.2	1230.3	1244.4	1239.8	1244.4	1249.1	1249.1	1263.2
55°	925.1	925.1	939.2	939.2	948.7	943.8	948.7	948.7	948.7	948.7	953.3
57.5°	690.2	695.1	709.2	699.7	695.1	704.4	695.1	704.4	699.7	709.2	695.1
60°	530.6	530.6	535.4	535.4	540.1	540.1	540.1	535.4	535.4	530.6	530.6
62.5°	399.1	403.8	408.6	403.8	403.8	403.8	399.1	399.1	394.5	389.7	389.7
65°	267.7	263.1	272.3	263.1	267.7	267.7	263.1	267.7	253.6	258.2	253.6
67.5°	192.5	187.9	183.2	187.9	183.2	178.4	178.4	183.2	187.9	173.8	173.8
70°	126.8	131.4	126.8	131.4	136.3	136.3	131.4	126.8	131.4	122.2	126.8
72.5°	79.8	79.8	79.8	79.8	79.8	84.5	84.5	84.5	75.2	75.2	70.4
75°	37.5	51.6	42.3	37.5	51.6	51.6	47.0	47.0	42.3	42.3	42.3
77.5°	37.5	28.2	28.2	28.2	28.2	28.2	28.2	28.2	23.4	28.2	23.4
80°	18.7	18.7	18.7	14.1	18.7	18.7	23.4	18.7	18.7	14.1	23.4
82.5°	9.5	9.5	9.5	0.0	4.6	9.5	9.5	4.6	9.5	9.5	4.6
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: P248729

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4
2.5°	9725.5	9720.8	9725.5	9730.1	9725.5	9720.8	9725.5	9730.1	9711.4	9706.7	9716.0
5°	9932.1	9932.1	9941.4	9946.2	9941.4	9932.1	9932.1	9913.4	9899.2	9885.1	9880.5
7.5°	10110.5	10120.0	10129.3	10133.9	10129.3	10120.0	10110.5	10082.3	10054.1	10030.7	10011.9
10°	10218.6	10232.7	10251.4	10260.7	10251.4	10232.7	10218.6	10185.7	10148.0	10110.5	10082.3
12.5°	10265.5	10279.6	10303.0	10298.4	10303.0	10279.6	10265.5	10218.6	10176.2	10124.6	10082.3
15°	10232.7	10251.4	10274.8	10284.3	10274.8	10251.4	10232.7	10185.7	10148.0	10091.8	10049.4
17.5°	10129.3	10157.5	10171.6	10185.7	10171.6	10157.5	10129.3	10091.8	10040.2	9993.2	9950.9
20°	9988.4	10007.3	10026.0	10030.7	10026.0	10007.3	9988.4	9946.2	9866.4	9856.9	9824.1
22.5°	9786.6	9800.7	9842.8	9828.7	9842.8	9800.7	9786.6	9748.9	9720.8	9669.0	9636.2
25°	9495.3	9509.4	9514.2	9518.8	9514.2	9509.4	9495.3	9462.4	9434.4	9396.7	9377.9
27.5°	8992.9	8992.9	9002.2	9007.0	9002.2	8992.9	8992.9	8969.3	8950.6	8931.8	8913.1
30°	8232.1	8232.1	8232.1	8255.7	8232.1	8232.1	8232.1	8227.5	8227.5	8232.1	8232.1
32.5°	7354.0	7344.5	7335.2	7344.5	7335.2	7344.5	7354.0	7358.6	7354.0	7368.1	7391.5
35°	6358.3	6353.7	6367.8	6349.1	6367.8	6353.7	6358.3	6358.3	6377.3	6396.0	6400.7
37.5°	5405.0	5395.7	5414.5	5395.7	5414.5	5395.7	5405.0	5400.4	5395.7	5405.0	5391.1
40°	4498.9	4508.1	4508.1	4545.8	4508.1	4508.1	4498.9	4489.4	4456.5	4437.8	4419.0
42.5°	3630.0	3658.2	3648.8	3677.0	3648.8	3658.2	3630.0	3611.3	3573.6	3540.7	3512.7
45°	2808.1	2827.1	2827.1	2836.4	2827.1	2827.1	2808.1	2789.4	2756.5	2728.3	2709.6
47.5°	2155.4	2155.4	2155.4	2160.2	2155.4	2155.4	2155.4	2122.5	2113.3	2094.5	2070.9
50°	1638.9	1643.6	1648.4	1653.0	1648.4	1643.6	1638.9	1629.4	1624.8	1615.3	1610.7
52.5°	1258.5	1263.2	1253.9	1263.2	1253.9	1263.2	1258.5	1263.2	1249.1	1249.1	1244.4
55°	953.3	948.7	953.3	958.0	953.3	948.7	953.3	953.3	948.7	948.7	948.7
57.5°	699.7	690.2	690.2	690.2	690.2	690.2	699.7	695.1	709.2	699.7	704.4
60°	521.3	525.9	525.9	530.6	525.9	525.9	521.3	530.6	530.6	535.4	535.4
62.5°	385.0	399.1	389.7	399.1	389.7	399.1	385.0	389.7	389.7	394.5	399.1
65°	249.0	249.0	249.0	253.6	249.0	249.0	249.0	253.6	258.2	253.6	267.7
67.5°	169.1	173.8	183.2	178.4	183.2	173.8	169.1	173.8	173.8	187.9	183.2
70°	136.3	122.2	122.2	136.3	122.2	122.2	136.3	126.8	122.2	131.4	126.8
72.5°	79.8	70.4	79.8	79.8	79.8	70.4	79.8	70.4	75.2	75.2	84.5
75°	42.3	37.5	32.9	47.0	32.9	37.5	42.3	42.3	42.3	42.3	47.0
77.5°	28.2	23.4	32.9	32.9	32.9	23.4	28.2	23.4	28.2	23.4	28.2
80°	14.1	18.7	14.1	23.4	14.1	18.7	14.1	23.4	14.1	18.7	18.7
82.5°	4.6	9.5	9.5	9.5	9.5	9.5	4.6	4.6	9.5	9.5	4.6
85°	0.0	9.5	4.6	4.6	4.6	9.5	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	0.0	0.0	4.6	0.0	0.0	4.6	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: P248729

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4
2.5°	9716.0	9701.9	9706.7	9678.5	9678.5	9669.0	9673.9	9650.3	9641.0	9631.5	9645.6
5°	9856.9	9833.5	9814.6	9772.4	9748.9	9720.8	9706.7	9669.0	9636.2	9608.0	9603.3
7.5°	9969.6	9918.0	9885.1	9828.7	9786.6	9753.7	9706.7	9654.9	9612.8	9575.1	9547.1
10°	10016.6	9965.0	9913.4	9842.8	9795.8	9734.8	9687.8	9622.1	9565.8	9514.2	9481.2
12.5°	10021.2	9955.5	9908.5	9828.7	9767.6	9701.9	9650.3	9575.1	9509.4	9457.8	9406.2
15°	9979.1	9918.0	9861.6	9777.1	9716.0	9654.9	9594.0	9514.2	9453.1	9392.0	9354.6
17.5°	9885.1	9828.7	9763.0	9683.1	9626.9	9570.5	9504.7	9439.0	9368.5	9302.7	9255.8
20°	9763.0	9701.9	9645.6	9565.8	9518.8	9457.8	9396.7	9326.3	9269.9	9204.2	9152.6
22.5°	9579.9	9523.5	9471.9	9424.9	9349.7	9302.7	9260.6	9180.8	9124.3	9063.3	9007.0
25°	9316.9	9260.6	9218.3	9161.8	9129.0	9077.4	9035.0	8964.7	8913.1	8856.6	8809.7
27.5°	8884.9	8852.0	8828.4	8795.6	8767.5	8743.9	8720.6	8664.1	8626.6	8575.0	8528.0
30°	8236.7	8232.1	8218.0	8203.9	8222.6	8222.6	8222.6	8213.4	8180.5	8142.8	8109.9
32.5°	7405.6	7415.1	7433.8	7447.9	7485.4	7527.7	7565.2	7584.0	7584.0	7560.6	7546.5
35°	6414.8	6428.9	6457.1	6494.6	6541.6	6593.2	6677.7	6696.6	6710.5	6710.5	6691.8
37.5°	5386.3	5381.6	5409.9	5442.7	5470.9	5508.4	5569.5	5583.6	5607.0	5597.7	5578.8
40°	4386.0	4362.6	4353.1	4362.6	4395.5	4381.3	4395.5	4386.0	4386.0	4353.1	4353.1
42.5°	3460.9	3432.9	3413.9	3400.0	3400.0	3366.9	3343.6	3320.2	3306.1	3282.5	3277.8
45°	2667.4	2634.4	2611.0	2601.5	2587.6	2545.3	2517.0	2488.8	2456.0	2446.7	2451.3
47.5°	2070.9	2038.1	2028.6	2005.2	1981.6	1958.2	1939.5	1906.6	1901.8	1883.0	1901.8
50°	1596.6	1587.3	1573.2	1563.7	1549.6	1530.9	1512.1	1493.4	1483.9	1483.9	1488.5
52.5°	1239.8	1244.4	1230.3	1216.2	1206.9	1206.9	1183.3	1178.7	1178.7	1159.9	1178.7
55°	948.7	943.8	948.7	939.2	939.2	925.1	925.1	911.0	911.0	896.9	906.3
57.5°	695.1	704.4	695.1	699.7	709.2	695.1	690.2	676.1	685.6	676.1	681.0
60°	540.1	540.1	540.1	535.4	535.4	530.6	530.6	525.9	525.9	516.5	525.9
62.5°	399.1	403.8	403.8	403.8	408.6	403.8	399.1	403.8	399.1	399.1	403.8
65°	263.1	267.7	267.7	263.1	272.3	263.1	267.7	272.3	277.0	272.3	277.0
67.5°	178.4	178.4	183.2	187.9	183.2	187.9	192.5	187.9	192.5	202.0	192.5
70°	131.4	136.3	136.3	131.4	126.8	131.4	126.8	140.9	140.9	140.9	150.2
72.5°	84.5	84.5	79.8	79.8	79.8	79.8	79.8	93.9	84.5	79.8	89.3
75°	47.0	51.6	51.6	37.5	42.3	51.6	37.5	42.3	56.4	47.0	56.4
77.5°	28.2	28.2	28.2	28.2	28.2	28.2	37.5	32.9	32.9	32.9	37.5
80°	23.4	18.7	18.7	14.1	18.7	18.7	18.7	28.2	23.4	23.4	28.2
82.5°	9.5	9.5	4.6	0.0	9.5	9.5	9.5	9.5	9.5	9.5	18.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	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: P248729

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4
2.5°	9608.0	9608.0	9603.3	9594.0	9575.1	9575.1	9570.5	9556.3	9547.1	9542.2	9542.2
5°	9561.0	9542.2	9523.5	9471.9	9471.9	9462.4	9434.4	9415.4	9406.2	9382.6	9373.3
7.5°	9518.8	9462.4	9429.5	9396.7	9354.6	9335.6	9302.7	9288.6	9255.8	9232.4	9218.3
10°	9415.4	9377.9	9335.6	9284.0	9251.1	9213.6	9175.9	9147.9	9105.6	9082.0	9063.3
12.5°	9345.1	9288.6	9251.1	9194.7	9138.4	9105.6	9054.0	9021.1	8978.8	8931.8	8903.6
15°	9279.4	9218.3	9166.7	9105.6	9044.5	9007.0	8945.9	8908.4	8847.4	8800.4	8767.5
17.5°	9180.8	9129.0	9072.7	8997.5	8941.3	8894.3	8828.4	8781.6	8725.2	8664.1	8631.3
20°	9077.4	9016.3	8960.0	8884.9	8828.4	8772.2	8706.4	8654.8	8588.9	8532.7	8495.2
22.5°	8941.3	8870.7	8823.8	8748.6	8682.9	8622.0	8560.9	8499.8	8438.7	8391.8	8349.4
25°	8743.9	8668.8	8617.1	8556.1	8495.2	8448.2	8373.0	8335.5	8274.4	8232.1	8189.8
27.5°	8462.1	8405.9	8358.9	8297.8	8246.2	8208.7	8152.3	8114.8	8063.0	8025.5	7992.6
30°	8049.1	8002.1	7959.8	7898.7	7861.2	7828.3	7776.5	7743.7	7706.2	7663.8	7654.5
32.5°	7494.9	7457.2	7415.1	7372.7	7344.5	7325.8	7283.4	7264.7	7227.2	7203.6	7180.2
35°	6658.9	6626.0	6602.7	6583.9	6574.4	6579.1	6569.8	6588.5	6597.8	6593.2	6597.8
37.5°	5564.9	5545.9	5555.4	5569.5	5616.5	5677.6	5733.8	5818.3	5874.7	5931.2	5982.8
40°	4343.8	4358.0	4395.5	4479.9	4602.1	4738.4	4865.2	5024.8	5184.5	5297.2	5400.4
42.5°	3277.8	3320.2	3413.9	3536.1	3719.3	3921.1	4118.5	4353.1	4545.8	4733.5	4865.2
45°	2465.4	2521.7	2643.8	2813.0	3014.8	3249.6	3498.6	3761.5	3991.7	4184.2	4329.7
47.5°	1920.7	1972.3	2094.5	2272.9	2521.7	2766.0	3024.2	3296.6	3536.1	3724.0	3850.8
50°	1516.8	1582.5	1690.5	1878.4	2127.4	2385.6	2653.3	2920.8	3146.4	3306.1	3418.8
52.5°	1192.8	1253.9	1357.1	1554.5	1808.1	2066.3	2315.1	2578.1	2775.3	2930.3	3005.5
55°	925.1	981.5	1089.4	1253.9	1493.4	1747.0	1995.7	2221.3	2404.4	2517.0	2587.6
57.5°	704.4	746.7	821.9	986.2	1202.3	1436.9	1648.4	1873.8	2014.7	2094.5	2141.3
60°	535.4	568.3	648.1	774.9	972.1	1174.1	1352.5	1521.6	1634.3	1700.0	1747.0
62.5°	403.8	441.5	497.7	605.8	756.0	920.5	1070.6	1197.4	1291.4	1333.7	1366.6
65°	277.0	305.2	347.5	432.0	558.8	676.1	793.7	887.6	948.7	995.6	1014.4
67.5°	206.6	225.4	249.0	314.7	403.8	497.7	577.6	643.3	709.2	727.9	760.8
70°	155.0	169.1	192.5	239.5	291.1	356.8	422.7	460.2	507.2	540.1	549.5
72.5°	98.6	103.2	126.8	155.0	197.2	239.5	281.8	314.7	342.9	361.6	370.9
75°	56.4	84.5	84.5	112.7	140.9	159.7	187.9	211.3	225.4	239.5	239.5
77.5°	37.5	51.6	56.4	70.4	84.5	108.1	131.4	145.5	159.7	164.3	164.3
80°	32.9	37.5	37.5	51.6	61.1	79.8	93.9	98.6	108.1	112.7	122.2
82.5°	14.1	18.7	23.4	37.5	42.3	42.3	56.4	61.1	70.4	75.2	75.2
85°	4.6	9.5	9.5	14.1	23.4	28.2	32.9	37.5	42.3	42.3	47.0
87.5°	4.6	4.6	0.0	4.6	9.5	9.5	18.7	18.7	18.7	28.2	28.2
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: P248729

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4	9617.4
2.5°	9533.0	9537.6	9518.8	9514.2	9504.7	9509.4	9518.8
5°	9359.2	9363.8	9345.1	9326.3	9326.3	9321.5	9326.3
7.5°	9194.7	9199.5	9171.3	9161.8	9143.1	9147.9	9147.9
10°	9030.4	9030.4	8988.3	8983.4	8969.3	8964.7	8964.7
12.5°	<i>8870.7</i>	<i>8856.6</i>	<i>8823.8</i>	<i>8805.0</i>	<i>8814.5</i>	<i>8786.3</i>	<i>8786.3</i>
15°	8729.8	8706.4	8664.1	8650.0	8626.6	8617.1	8617.1
17.5°	8584.3	8565.5	8528.0	8499.8	8471.6	8467.0	8471.6
20°	8443.4	8424.6	8377.7	8358.9	8335.5	8335.5	8326.0
22.5°	8302.5	8283.7	8241.6	8227.5	8194.6	8194.6	8199.2
25°	8156.9	8142.8	8095.8	8086.6	8081.9	8063.0	8072.4
27.5°	7959.8	7950.3	7912.8	7898.7	7879.9	7875.3	7884.6
30°	7598.1	7584.0	7556.0	7541.9	7509.0	7513.6	7522.9
32.5°	7147.4	7128.6	7090.9	7076.8	7048.8	7039.3	7043.9
35°	6583.9	6569.8	6536.9	6536.9	6508.7	6499.2	6508.7
37.5°	6011.0	6024.9	6011.0	6024.9	6011.0	6006.2	6011.0
40°	5470.9	5522.5	5531.8	5583.6	5564.9	5592.9	5588.3
42.5°	4954.3	5038.7	5071.8	5113.9	5104.6	5123.4	5137.5
45°	4433.0	4503.5	4536.4	4564.6	4569.2	4578.7	4583.3
47.5°	3939.9	3996.3	4000.9	4033.8	4029.2	4029.2	4043.3
50°	3479.8	3517.3	3526.6	3550.2	3531.4	3522.0	3526.6
52.5°	3052.5	3090.0	3080.5	3090.0	3066.6	3057.1	3061.7
55°	2615.6	2634.4	2634.4	2634.4	2606.3	2606.3	2606.3
57.5°	2169.5	2174.3	2164.9	2169.5	2164.9	2136.6	2132.0
60°	1761.1	1761.1	1756.2	1761.1	1747.0	1732.9	1732.9
62.5°	1375.9	1385.3	1404.1	1385.3	1375.9	1385.3	1371.2
65°	1028.5	1047.3	1042.4	1051.9	1047.3	1047.3	1037.8
67.5°	774.9	779.5	784.2	789.0	789.0	789.0	789.0
70°	568.3	582.4	577.6	577.6	577.6	577.6	605.8
72.5°	380.4	399.1	394.5	403.8	403.8	413.3	403.8
75°	258.2	277.0	267.7	281.8	277.0	267.7	291.1
77.5°	173.8	183.2	187.9	192.5	187.9	183.2	187.9
80°	122.2	131.4	126.8	131.4	131.4	131.4	136.3
82.5°	75.2	89.3	84.5	89.3	84.5	89.3	89.3
85°	51.6	56.4	47.0	56.4	51.6	51.6	61.1
87.5°	32.9	28.2	28.2	32.9	28.2	32.9	28.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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