

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: P248971

Luminaire Tested: **LD8B150D010 ER8B1509730 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248971
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: LD8B150D010 ER8B1509730 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9147.0 lumens
Efficiency: N/A
Efficacy: 57.7 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

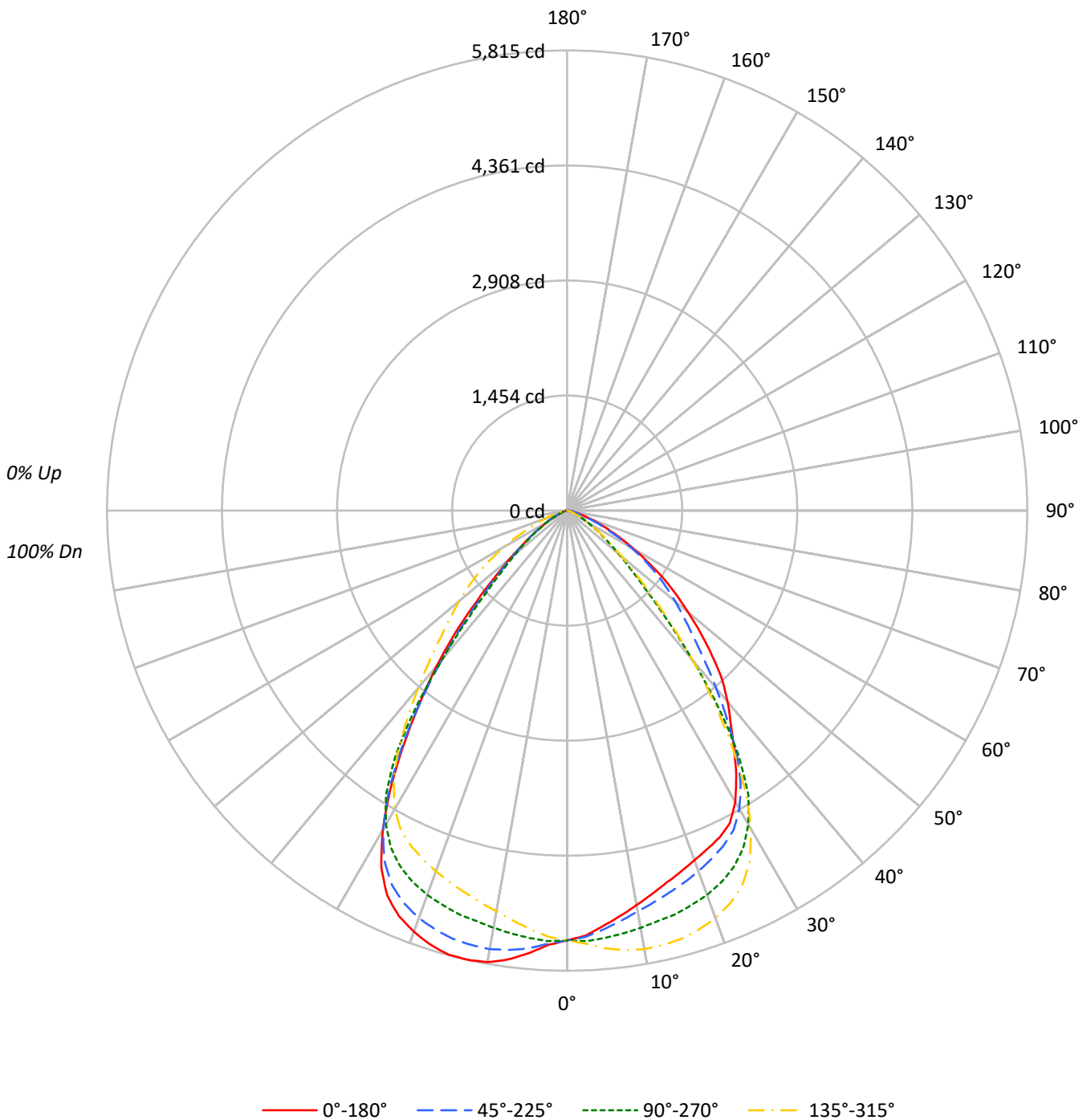
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	516.9	5.7
10°-20°	1496.7	16.4
20°-30°	2266.4	24.8
30°-40°	2271.5	24.8
40°-50°	1426.4	15.6
50°-60°	760.1	8.3
60°-70°	312.6	3.4
70°-80°	82.6	0.9
80°-90°	14.0	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°	4280.0	46.8
0°-40°	6551.4	71.6
0°-60°	8737.9	95.5
0°-90°	9147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9147.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5430	5430	5430	5430	5430	
5°	5266	5422	5616	5422	5266	497
15°	4866	5282	5807	5282	4866	1376
25°	4558	4974	5375	4974	4558	2090
35°	3675	3778	3585	3778	3675	2302
45°	2588	1384	1602	1384	2588	1990
55°	1472	512	541	512	1472	1312
65°	586	156	143	156	586	608
75°	164	32	26	32	164	186
85°	34	0	3	0	34	38
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°	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3
2.5°	5374.6	5369.3	5366.7	5372.0	5374.6	5385.2	5382.6	5387.8	5387.8	5390.6	5395.8
5°	5265.9	5263.2	5265.9	5265.9	5276.5	5287.1	5284.5	5292.4	5297.7	5311.0	5316.2
7.5°	5165.2	5165.2	5162.5	5173.0	5178.4	5194.3	5191.6	5204.9	5212.9	5226.1	5244.6
10°	5061.7	5061.7	5064.3	5072.3	5075.0	5098.8	5098.8	5117.4	5128.0	5141.3	5165.2
12.5°	4961.0	4961.0	4976.9	4971.6	4982.2	5000.7	5008.7	5027.2	5043.2	5069.7	5093.6
15°	4865.5	4865.5	4870.8	4884.0	4892.0	4915.9	4929.1	4950.4	4969.0	4995.5	5030.0
17.5°	4783.3	4780.7	4783.3	4799.2	4815.2	4836.4	4846.9	4873.5	4892.0	4926.5	4958.4
20°	4701.1	4706.5	4706.5	4719.7	4730.3	4756.8	4767.4	4796.6	4817.8	4849.6	4886.8
22.5°	4629.5	4626.9	4626.9	4645.5	4653.4	4677.2	4687.8	4714.3	4738.2	4764.8	4799.2
25°	4557.9	4552.6	4563.3	4565.9	4571.1	4597.7	4605.6	4624.2	4648.1	4672.0	4706.5
27.5°	4451.9	4446.6	4449.2	4459.8	4467.8	4489.0	4494.3	4512.9	4531.4	4552.6	4581.8
30°	4247.7	4242.4	4239.8	4258.4	4266.3	4282.1	4290.1	4322.0	4327.2	4351.1	4372.3
32.5°	3977.2	3974.6	3979.9	3995.8	4003.7	4025.0	4035.6	4054.2	4067.4	4080.7	4101.9
35°	3675.0	3669.7	3675.0	3690.9	3690.9	3709.5	3717.5	3725.3	3722.7	3725.3	3720.1
37.5°	3394.0	3391.3	3394.0	3401.8	3394.0	3401.8	3394.0	3378.0	3348.9	3317.0	3285.2
40°	3155.3	3157.9	3142.1	3152.7	3123.4	3118.2	3089.0	3049.2	2990.9	2927.3	2837.2
42.5°	2900.8	2892.8	2882.2	2887.5	2863.7	2845.0	2797.3	2747.0	2672.7	2566.7	2457.9
45°	2587.9	2585.3	2579.9	2577.3	2561.4	2542.8	2503.0	2444.7	2362.5	2253.8	2123.8
47.5°	2283.0	2275.0	2275.0	2277.6	2259.1	2256.4	2224.6	2174.3	2102.7	1996.6	1861.4
50°	1991.2	1988.6	1994.0	2004.5	1991.2	1986.0	1964.8	1930.3	1866.7	1776.6	1649.2
52.5°	1728.8	1726.1	1731.5	1744.7	1739.3	1744.7	1723.5	1697.0	1654.5	1567.0	1455.7
55°	1471.6	1471.6	1471.6	1487.4	1487.4	1487.4	1476.9	1461.0	1421.2	1357.6	1254.2
57.5°	1203.8	1206.4	1222.3	1225.0	1222.3	1227.7	1225.0	1209.0	1182.6	1137.5	1058.0
60°	978.4	978.4	986.4	994.4	991.6	994.4	994.4	986.4	959.9	922.8	859.1
62.5°	774.2	782.2	776.8	782.2	792.8	782.2	776.8	771.6	753.1	729.2	676.1
65°	586.0	591.3	591.3	593.9	588.6	591.3	580.7	572.8	562.2	535.7	501.2
67.5°	445.5	445.5	445.5	445.5	442.8	440.2	437.5	429.6	411.0	400.4	363.2
70°	342.0	326.1	326.1	326.1	326.1	328.8	320.9	310.3	304.9	286.4	259.9
72.5°	228.0	233.3	228.0	228.0	222.8	225.4	214.8	209.4	204.2	193.6	177.7
75°	164.4	151.2	156.4	159.1	151.2	156.4	145.8	135.2	135.2	127.3	119.3
77.5°	106.1	103.5	106.1	108.7	106.1	103.5	98.1	92.8	92.8	90.1	82.2
80°	76.9	74.2	74.2	74.2	71.6	74.2	69.0	69.0	63.6	61.0	55.7
82.5°	50.4	50.4	47.7	50.4	47.7	50.4	42.5	42.5	42.5	39.7	34.5
85°	34.5	29.1	29.1	31.9	26.5	31.9	29.1	26.5	23.9	23.9	21.2
87.5°	15.9	18.6	15.9	18.6	15.9	15.9	18.6	15.9	15.9	10.6	10.6
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°	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3
2.5°	5403.8	5406.4	5406.4	5417.1	5422.3	5424.9	5424.9	5446.2	5438.3	5443.6	5448.8
5°	5326.9	5342.8	5348.1	5348.1	5377.2	5387.8	5398.4	5422.3	5424.9	5440.9	5459.4
7.5°	5252.6	5271.2	5281.9	5305.6	5324.2	5342.8	5374.6	5390.6	5406.4	5427.7	5451.5
10°	5181.0	5202.3	5223.5	5242.0	5271.2	5295.1	5316.2	5353.3	5372.0	5401.1	5432.9
12.5°	5112.1	5141.3	5159.8	5191.6	5223.5	5244.6	5276.5	5311.0	5340.1	5369.3	5406.4
15°	5051.1	5085.6	5106.8	5141.3	5175.8	5204.9	5239.4	5281.9	5303.0	5337.5	5372.0
17.5°	4984.8	5022.0	5048.5	5080.3	5122.7	5154.5	5183.7	5226.1	5252.6	5289.7	5329.5
20°	4915.9	4953.0	4984.8	5016.7	5059.1	5090.9	5125.4	5167.8	5196.9	5234.1	5265.9
22.5°	4833.7	4868.2	4902.6	4939.7	4982.2	5008.7	5048.5	5085.6	5117.4	5151.9	5183.7
25°	4727.7	4770.1	4796.6	4831.0	4865.5	4894.6	4937.1	4974.2	5000.7	5032.6	5061.7
27.5°	4603.0	4634.9	4656.1	4685.2	4719.7	4746.2	4778.0	4815.2	4841.7	4870.8	4892.0
30°	4390.9	4420.1	4438.7	4459.8	4494.3	4518.2	4544.7	4579.1	4597.7	4619.0	4637.5
32.5°	4112.4	4136.3	4146.9	4162.9	4186.8	4210.6	4231.8	4261.0	4268.9	4282.1	4282.1
35°	3709.5	3714.7	3712.1	3717.5	3728.1	3741.3	3759.8	3778.4	3789.0	3789.0	3781.1
37.5°	3237.5	3205.7	3171.2	3144.7	3136.7	3131.4	3142.1	3149.9	3160.6	3165.9	3152.7
40°	2747.0	2675.4	2598.5	2529.5	2481.8	2460.6	2452.7	2457.9	2457.9	2476.5	2476.5
42.5°	2325.4	2214.0	2100.0	1996.6	1927.6	1874.7	1850.8	1850.8	1853.4	1866.7	1874.7
45°	1975.4	1834.8	1702.2	1588.3	1492.8	1423.8	1392.1	1384.1	1381.5	1386.7	1405.3
47.5°	1707.6	1561.8	1423.8	1283.4	1182.6	1113.6	1084.5	1073.8	1063.2	1073.8	1076.5
50°	1498.1	1347.0	1201.2	1060.6	954.5	893.5	856.4	840.5	837.9	837.9	843.2
52.5°	1307.1	1166.7	1020.9	877.7	766.3	708.0	673.5	665.5	654.9	665.5	665.5
55°	1126.9	986.4	843.2	708.0	615.1	554.2	522.3	511.7	506.4	514.4	514.4
57.5°	930.7	811.3	678.8	556.8	464.1	421.6	397.7	384.5	381.8	387.1	381.8
60°	763.6	662.9	548.9	437.5	365.9	320.9	302.3	297.0	291.6	297.0	297.0
62.5°	604.5	519.7	426.8	342.0	281.0	249.3	228.0	228.0	225.4	225.4	228.0
65°	448.1	381.8	315.5	243.9	196.2	172.3	156.4	156.4	153.8	156.4	153.8
67.5°	326.1	281.0	228.0	177.7	140.6	127.3	116.7	108.7	114.0	108.7	106.1
70°	238.7	201.5	164.4	135.2	108.7	95.5	87.5	84.8	79.6	79.6	79.6
72.5°	159.1	135.2	111.3	87.5	71.6	58.3	55.7	50.4	45.1	47.7	53.0
75°	106.1	90.1	79.6	63.6	47.7	47.7	31.9	31.9	26.5	31.9	23.9
77.5°	74.2	61.0	47.7	39.7	31.9	29.1	21.2	21.2	18.6	18.6	18.6
80°	53.0	45.1	34.5	29.1	21.2	21.2	18.6	15.9	13.2	13.2	15.9
82.5°	31.9	23.9	23.9	21.2	13.2	10.6	8.0	10.6	5.3	5.3	5.3
85°	18.6	15.9	13.2	8.0	5.3	5.3	2.6	0.0	2.6	2.6	0.0
87.5°	10.6	5.3	5.3	2.6	0.0	2.6	2.6	0.0	0.0	0.0	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3
2.5°	5462.2	5459.4	5464.8	5464.8	5480.7	5478.0	5485.9	5485.9	5480.7	5483.3	5493.9
5°	5480.7	5488.7	5504.5	5517.8	5541.6	5552.3	5565.5	5578.8	5581.4	5589.4	5597.4
7.5°	5480.7	5507.2	5525.8	5549.6	5581.4	5600.0	5629.1	5653.0	5663.6	5676.8	5692.8
10°	5470.0	5496.5	5531.0	5557.5	5597.4	5626.5	5655.7	5692.8	5708.7	5729.9	5751.2
12.5°	5448.8	5478.0	5515.1	5549.6	5594.6	5621.2	5658.3	5692.8	5716.7	5745.8	5769.7
15°	5417.1	5451.5	5485.9	5520.4	5568.1	5600.0	5634.5	5674.2	5698.1	5729.9	5751.2
17.5°	5366.7	5403.8	5435.6	5467.4	5512.5	5549.6	5581.4	5618.5	5642.4	5669.0	5698.1
20°	5305.6	5340.1	5374.6	5401.1	5446.2	5478.0	5512.5	5547.0	5565.5	5570.9	5615.9
22.5°	5228.8	5252.6	5279.1	5321.6	5348.1	5377.2	5409.1	5440.9	5459.4	5488.7	5504.5
25°	5101.5	5125.4	5154.5	5173.0	5204.9	5228.8	5260.6	5295.1	5305.6	5326.9	5342.8
27.5°	4923.9	4937.1	4950.4	4966.2	4984.8	4998.1	5016.7	5032.6	5043.2	5053.8	5064.3
30°	4642.7	4642.7	4642.7	4632.2	4640.1	4648.1	4650.7	4648.1	4648.1	4645.5	4645.5
32.5°	4271.6	4250.4	4226.5	4205.3	4197.3	4186.8	4181.4	4173.4	4160.2	4152.3	4154.9
35°	3770.4	3722.7	3693.6	3667.0	3645.9	3629.9	3622.0	3614.0	3611.4	3600.8	3590.1
37.5°	3144.7	3110.2	3089.0	3073.1	3054.6	3038.6	3041.2	3044.0	3051.8	3046.6	3049.2
40°	2481.8	2473.8	2481.8	2463.3	2457.9	2463.3	2476.5	2495.1	2505.7	2516.3	2534.8
42.5°	1887.9	1901.1	1919.7	1919.7	1927.6	1938.3	1954.1	1983.4	1999.2	2017.7	2039.0
45°	1421.2	1437.1	1461.0	1468.9	1474.2	1487.4	1506.1	1529.9	1540.5	1556.4	1575.0
47.5°	1095.1	1105.7	1118.9	1132.2	1145.4	1150.8	1169.3	1169.3	1182.6	1193.2	1198.4
50°	853.8	864.4	875.0	882.9	888.3	896.2	901.5	909.4	912.1	917.4	920.0
52.5°	668.1	681.5	681.5	686.7	694.7	702.6	700.0	702.6	705.3	705.3	713.2
55°	522.3	522.3	530.3	530.3	535.7	532.9	535.7	535.7	535.7	535.7	538.3
57.5°	389.7	392.5	400.4	395.1	392.5	397.7	392.5	397.7	395.1	400.4	392.5
60°	299.6	299.6	302.3	302.3	304.9	304.9	304.9	302.3	302.3	299.6	299.6
62.5°	225.4	228.0	230.7	228.0	228.0	228.0	225.4	225.4	222.8	220.0	220.0
65°	151.2	148.5	153.8	148.5	151.2	151.2	148.5	151.2	143.2	145.8	143.2
67.5°	108.7	106.1	103.5	106.1	103.5	100.7	100.7	103.5	106.1	98.1	98.1
70°	71.6	74.2	71.6	74.2	76.9	76.9	74.2	71.6	74.2	69.0	71.6
72.5°	45.1	45.1	45.1	45.1	45.1	47.7	47.7	47.7	42.5	42.5	39.7
75°	21.2	29.1	23.9	21.2	29.1	29.1	26.5	26.5	23.9	23.9	23.9
77.5°	21.2	15.9	15.9	15.9	15.9	15.9	15.9	15.9	13.2	15.9	13.2
80°	10.6	10.6	10.6	8.0	10.6	10.6	13.2	10.6	10.6	8.0	13.2
82.5°	5.3	5.3	5.3	0.0	2.6	5.3	5.3	2.6	5.3	5.3	2.6
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: P248971

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3
2.5°	5491.3	5488.7	5491.3	5493.9	5491.3	5488.7	5491.3	5493.9	5483.3	5480.7	5485.9
5°	5608.0	5608.0	5613.2	5615.9	5613.2	5608.0	5608.0	5597.4	5589.4	5581.4	5578.8
7.5°	5708.7	5714.0	5719.3	5721.9	5719.3	5714.0	5708.7	5692.8	5676.8	5663.6	5653.0
10°	5769.7	5777.7	5788.3	5793.5	5788.3	5777.7	5769.7	5751.2	5729.9	5708.7	5692.8
12.5°	5796.2	5804.2	5817.4	5814.8	5817.4	5804.2	5796.2	5769.7	5745.8	5716.7	5692.8
15°	5777.7	5788.3	5801.5	5806.8	5801.5	5788.3	5777.7	5751.2	5729.9	5698.1	5674.2
17.5°	5719.3	5735.2	5743.2	5751.2	5743.2	5735.2	5719.3	5698.1	5669.0	5642.4	5618.5
20°	5639.7	5650.4	5661.0	5663.6	5661.0	5650.4	5639.7	5615.9	5570.9	5565.5	5547.0
22.5°	5525.8	5533.7	5557.5	5549.6	5557.5	5533.7	5525.8	5504.5	5488.7	5459.4	5440.9
25°	5361.3	5369.3	5372.0	5374.6	5372.0	5369.3	5361.3	5342.8	5326.9	5305.6	5295.1
27.5°	5077.7	5077.7	5082.9	5085.6	5082.9	5077.7	5077.7	5064.3	5053.8	5043.2	5032.6
30°	4648.1	4648.1	4648.1	4661.4	4648.1	4648.1	4648.1	4645.5	4645.5	4648.1	4648.1
32.5°	4152.3	4146.9	4141.7	4146.9	4141.7	4146.9	4152.3	4154.9	4152.3	4160.2	4173.4
35°	3590.1	3587.5	3595.5	3584.9	3595.5	3587.5	3590.1	3590.1	3600.8	3611.4	3614.0
37.5°	3051.8	3046.6	3057.2	3046.6	3057.2	3046.6	3051.8	3049.2	3046.6	3051.8	3044.0
40°	2540.2	2545.4	2545.4	2566.7	2545.4	2545.4	2540.2	2534.8	2516.3	2505.7	2495.1
42.5°	2049.6	2065.6	2060.2	2076.1	2060.2	2065.6	2049.6	2039.0	2017.7	1999.2	1983.4
45°	1585.6	1596.3	1596.3	1601.5	1596.3	1596.3	1585.6	1575.0	1556.4	1540.5	1529.9
47.5°	1217.0	1217.0	1217.0	1219.7	1217.0	1217.0	1217.0	1198.4	1193.2	1182.6	1169.3
50°	925.4	928.0	930.7	933.4	930.7	928.0	925.4	920.0	917.4	912.1	909.4
52.5°	710.6	713.2	708.0	713.2	708.0	713.2	710.6	713.2	705.3	705.3	702.6
55°	538.3	535.7	538.3	540.9	538.3	535.7	538.3	538.3	535.7	535.7	535.7
57.5°	395.1	389.7	389.7	389.7	389.7	389.7	395.1	392.5	400.4	395.1	397.7
60°	294.3	297.0	297.0	299.6	297.0	297.0	294.3	299.6	299.6	302.3	302.3
62.5°	217.4	225.4	220.0	225.4	220.0	225.4	217.4	220.0	220.0	222.8	225.4
65°	140.6	140.6	140.6	143.2	140.6	140.6	140.6	143.2	145.8	143.2	151.2
67.5°	95.5	98.1	103.5	100.7	103.5	98.1	95.5	98.1	98.1	106.1	103.5
70°	76.9	69.0	69.0	76.9	69.0	69.0	76.9	71.6	69.0	74.2	71.6
72.5°	45.1	39.7	45.1	45.1	45.1	39.7	45.1	39.7	42.5	42.5	47.7
75°	23.9	21.2	18.6	26.5	18.6	21.2	23.9	23.9	23.9	23.9	26.5
77.5°	15.9	13.2	18.6	18.6	18.6	13.2	15.9	13.2	15.9	13.2	15.9
80°	8.0	10.6	8.0	13.2	8.0	10.6	8.0	13.2	8.0	10.6	10.6
82.5°	2.6	5.3	5.3	5.3	5.3	5.3	2.6	2.6	5.3	5.3	2.6
85°	0.0	5.3	2.6	2.6	2.6	5.3	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.0	0.0	2.6	0.0	0.0	2.6	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: P248971

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3
2.5°	5485.9	5478.0	5480.7	5464.8	5464.8	5459.4	5462.2	5448.8	5443.6	5438.3	5446.2
5°	5565.5	5552.3	5541.6	5517.8	5504.5	5488.7	5480.7	5459.4	5440.9	5424.9	5422.3
7.5°	5629.1	5600.0	5581.4	5549.6	5525.8	5507.2	5480.7	5451.5	5427.7	5406.4	5390.6
10°	5655.7	5626.5	5597.4	5557.5	5531.0	5496.5	5470.0	5432.9	5401.1	5372.0	5353.3
12.5°	5658.3	5621.2	5594.6	5549.6	5515.1	5478.0	5448.8	5406.4	5369.3	5340.1	5311.0
15°	5634.5	5600.0	5568.1	5520.4	5485.9	5451.5	5417.1	5372.0	5337.5	5303.0	5281.9
17.5°	5581.4	5549.6	5512.5	5467.4	5435.6	5403.8	5366.7	5329.5	5289.7	5252.6	5226.1
20°	5512.5	5478.0	5446.2	5401.1	5374.6	5340.1	5305.6	5265.9	5234.1	5196.9	5167.8
22.5°	5409.1	5377.2	5348.1	5321.6	5279.1	5252.6	5228.8	5183.7	5151.9	5117.4	5085.6
25°	5260.6	5228.8	5204.9	5173.0	5154.5	5125.4	5101.5	5061.7	5032.6	5000.7	4974.2
27.5°	5016.7	4998.1	4984.8	4966.2	4950.4	4937.1	4923.9	4892.0	4870.8	4841.7	4815.2
30°	4650.7	4648.1	4640.1	4632.2	4642.7	4642.7	4642.7	4637.5	4619.0	4597.7	4579.1
32.5°	4181.4	4186.8	4197.3	4205.3	4226.5	4250.4	4271.6	4282.1	4282.1	4268.9	4261.0
35°	3622.0	3629.9	3645.9	3667.0	3693.6	3722.7	3770.4	3781.1	3789.0	3789.0	3778.4
37.5°	3041.2	3038.6	3054.6	3073.1	3089.0	3110.2	3144.7	3152.7	3165.9	3160.6	3149.9
40°	2476.5	2463.3	2457.9	2463.3	2481.8	2473.8	2481.8	2476.5	2476.5	2457.9	2457.9
42.5°	1954.1	1938.3	1927.6	1919.7	1919.7	1901.1	1887.9	1874.7	1866.7	1853.4	1850.8
45°	1506.1	1487.4	1474.2	1468.9	1461.0	1437.1	1421.2	1405.3	1386.7	1381.5	1384.1
47.5°	1169.3	1150.8	1145.4	1132.2	1118.9	1105.7	1095.1	1076.5	1073.8	1063.2	1073.8
50°	901.5	896.2	888.3	882.9	875.0	864.4	853.8	843.2	837.9	837.9	840.5
52.5°	700.0	702.6	694.7	686.7	681.5	681.5	668.1	665.5	665.5	654.9	665.5
55°	535.7	532.9	535.7	530.3	530.3	522.3	522.3	514.4	514.4	506.4	511.7
57.5°	392.5	397.7	392.5	395.1	400.4	392.5	389.7	381.8	387.1	381.8	384.5
60°	304.9	304.9	304.9	302.3	302.3	299.6	299.6	297.0	297.0	291.6	297.0
62.5°	225.4	228.0	228.0	228.0	230.7	228.0	225.4	228.0	225.4	225.4	228.0
65°	148.5	151.2	151.2	148.5	153.8	148.5	151.2	153.8	156.4	153.8	156.4
67.5°	100.7	100.7	103.5	106.1	103.5	106.1	108.7	106.1	108.7	114.0	108.7
70°	74.2	76.9	76.9	74.2	71.6	74.2	71.6	79.6	79.6	79.6	84.8
72.5°	47.7	47.7	45.1	45.1	45.1	45.1	45.1	53.0	47.7	45.1	50.4
75°	26.5	29.1	29.1	21.2	23.9	29.1	21.2	23.9	31.9	26.5	31.9
77.5°	15.9	15.9	15.9	15.9	15.9	15.9	21.2	18.6	18.6	18.6	21.2
80°	13.2	10.6	10.6	8.0	10.6	10.6	10.6	15.9	13.2	13.2	15.9
82.5°	5.3	5.3	2.6	0.0	5.3	5.3	5.3	5.3	5.3	5.3	10.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248971

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3
2.5°	5424.9	5424.9	5422.3	5417.1	5406.4	5406.4	5403.8	5395.8	5390.6	5387.8	5387.8
5°	5398.4	5387.8	5377.2	5348.1	5348.1	5342.8	5326.9	5316.2	5311.0	5297.7	5292.4
7.5°	5374.6	5342.8	5324.2	5305.6	5281.9	5271.2	5252.6	5244.6	5226.1	5212.9	5204.9
10°	5316.2	5295.1	5271.2	5242.0	5223.5	5202.3	5181.0	5165.2	5141.3	5128.0	5117.4
12.5°	5276.5	5244.6	5223.5	5191.6	5159.8	5141.3	5112.1	5093.6	5069.7	5043.2	5027.2
15°	5239.4	5204.9	5175.8	5141.3	5106.8	5085.6	5051.1	5030.0	4995.5	4969.0	4950.4
17.5°	5183.7	5154.5	5122.7	5080.3	5048.5	5022.0	4984.8	4958.4	4926.5	4892.0	4873.5
20°	5125.4	5090.9	5059.1	5016.7	4984.8	4953.0	4915.9	4886.8	4849.6	4817.8	4796.6
22.5°	5048.5	5008.7	4982.2	4939.7	4902.6	4868.2	4833.7	4799.2	4764.8	4738.2	4714.3
25°	4937.1	4894.6	4865.5	4831.0	4796.6	4770.1	4727.7	4706.5	4672.0	4648.1	4624.2
27.5°	4778.0	4746.2	4719.7	4685.2	4656.1	4634.9	4603.0	4581.8	4552.6	4531.4	4512.9
30°	4544.7	4518.2	4494.3	4459.8	4438.7	4420.1	4390.9	4372.3	4351.1	4327.2	4322.0
32.5°	4231.8	4210.6	4186.8	4162.9	4146.9	4136.3	4112.4	4101.9	4080.7	4067.4	4054.2
35°	3759.8	3741.3	3728.1	3717.5	3712.1	3714.7	3709.5	3720.1	3725.3	3722.7	3725.3
37.5°	3142.1	3131.4	3136.7	3144.7	3171.2	3205.7	3237.5	3285.2	3317.0	3348.9	3378.0
40°	2452.7	2460.6	2481.8	2529.5	2598.5	2675.4	2747.0	2837.2	2927.3	2990.9	3049.2
42.5°	1850.8	1874.7	1927.6	1996.6	2100.0	2214.0	2325.4	2457.9	2566.7	2672.7	2747.0
45°	1392.1	1423.8	1492.8	1588.3	1702.2	1834.8	1975.4	2123.8	2253.8	2362.5	2444.7
47.5°	1084.5	1113.6	1182.6	1283.4	1423.8	1561.8	1707.6	1861.4	1996.6	2102.7	2174.3
50°	856.4	893.5	954.5	1060.6	1201.2	1347.0	1498.1	1649.2	1776.6	1866.7	1930.3
52.5°	673.5	708.0	766.3	877.7	1020.9	1166.7	1307.1	1455.7	1567.0	1654.5	1697.0
55°	522.3	554.2	615.1	708.0	843.2	986.4	1126.9	1254.2	1357.6	1421.2	1461.0
57.5°	397.7	421.6	464.1	556.8	678.8	811.3	930.7	1058.0	1137.5	1182.6	1209.0
60°	302.3	320.9	365.9	437.5	548.9	662.9	763.6	859.1	922.8	959.9	986.4
62.5°	228.0	249.3	281.0	342.0	426.8	519.7	604.5	676.1	729.2	753.1	771.6
65°	156.4	172.3	196.2	243.9	315.5	381.8	448.1	501.2	535.7	562.2	572.8
67.5°	116.7	127.3	140.6	177.7	228.0	281.0	326.1	363.2	400.4	411.0	429.6
70°	87.5	95.5	108.7	135.2	164.4	201.5	238.7	259.9	286.4	304.9	310.3
72.5°	55.7	58.3	71.6	87.5	111.3	135.2	159.1	177.7	193.6	204.2	209.4
75°	31.9	47.7	47.7	63.6	79.6	90.1	106.1	119.3	127.3	135.2	135.2
77.5°	21.2	29.1	31.9	39.7	47.7	61.0	74.2	82.2	90.1	92.8	92.8
80°	18.6	21.2	21.2	29.1	34.5	45.1	53.0	55.7	61.0	63.6	69.0
82.5°	8.0	10.6	13.2	21.2	23.9	23.9	31.9	34.5	39.7	42.5	42.5
85°	2.6	5.3	5.3	8.0	13.2	15.9	18.6	21.2	23.9	23.9	26.5
87.5°	2.6	2.6	0.0	2.6	5.3	5.3	10.6	10.6	10.6	15.9	15.9
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: P248971

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3	5430.3
2.5°	5382.6	5385.2	5374.6	5372.0	5366.7	5369.3	5374.6
5°	5284.5	5287.1	5276.5	5265.9	5265.9	5263.2	5265.9
7.5°	5191.6	5194.3	5178.4	5173.0	5162.5	5165.2	5165.2
10°	5098.8	5098.8	5075.0	5072.3	5064.3	5061.7	5061.7
12.5°	5008.7	5000.7	4982.2	4971.6	4976.9	4961.0	4961.0
15°	4929.1	4915.9	4892.0	4884.0	4870.8	4865.5	4865.5
17.5°	4846.9	4836.4	4815.2	4799.2	4783.3	4780.7	4783.3
20°	4767.4	4756.8	4730.3	4719.7	4706.5	4706.5	4701.1
22.5°	4687.8	4677.2	4653.4	4645.5	4626.9	4626.9	4629.5
25°	4605.6	4597.7	4571.1	4565.9	4563.3	4552.6	4557.9
27.5°	4494.3	4489.0	4467.8	4459.8	4449.2	4446.6	4451.9
30°	4290.1	4282.1	4266.3	4258.4	4239.8	4242.4	4247.7
32.5°	4035.6	4025.0	4003.7	3995.8	3979.9	3974.6	3977.2
35°	3717.5	3709.5	3690.9	3690.9	3675.0	3669.7	3675.0
37.5°	3394.0	3401.8	3394.0	3401.8	3394.0	3391.3	3394.0
40°	3089.0	3118.2	3123.4	3152.7	3142.1	3157.9	3155.3
42.5°	2797.3	2845.0	2863.7	2887.5	2882.2	2892.8	2900.8
45°	2503.0	2542.8	2561.4	2577.3	2579.9	2585.3	2587.9
47.5°	2224.6	2256.4	2259.1	2277.6	2275.0	2275.0	2283.0
50°	1964.8	1986.0	1991.2	2004.5	1994.0	1988.6	1991.2
52.5°	1723.5	1744.7	1739.3	1744.7	1731.5	1726.1	1728.8
55°	1476.9	1487.4	1487.4	1487.4	1471.6	1471.6	1471.6
57.5°	1225.0	1227.7	1222.3	1225.0	1222.3	1206.4	1203.8
60°	994.4	994.4	991.6	994.4	986.4	978.4	978.4
62.5°	776.8	782.2	792.8	782.2	776.8	782.2	774.2
65°	580.7	591.3	588.6	593.9	591.3	591.3	586.0
67.5°	437.5	440.2	442.8	445.5	445.5	445.5	445.5
70°	320.9	328.8	326.1	326.1	326.1	326.1	342.0
72.5°	214.8	225.4	222.8	228.0	228.0	233.3	228.0
75°	145.8	156.4	151.2	159.1	156.4	151.2	164.4
77.5°	98.1	103.5	106.1	108.7	106.1	103.5	106.1
80°	69.0	74.2	71.6	74.2	74.2	74.2	76.9
82.5°	42.5	50.4	47.7	50.4	47.7	50.4	50.4
85°	29.1	31.9	26.5	31.9	29.1	29.1	34.5
87.5°	18.6	15.9	15.9	18.6	15.9	18.6	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)