

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: P248653

Luminaire Tested: **LD8B90D010 ER8B90827 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248653
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: LD8B90D010 ER8B90827 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8767.0 lumens
Efficiency: N/A
Efficacy: 101.8 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

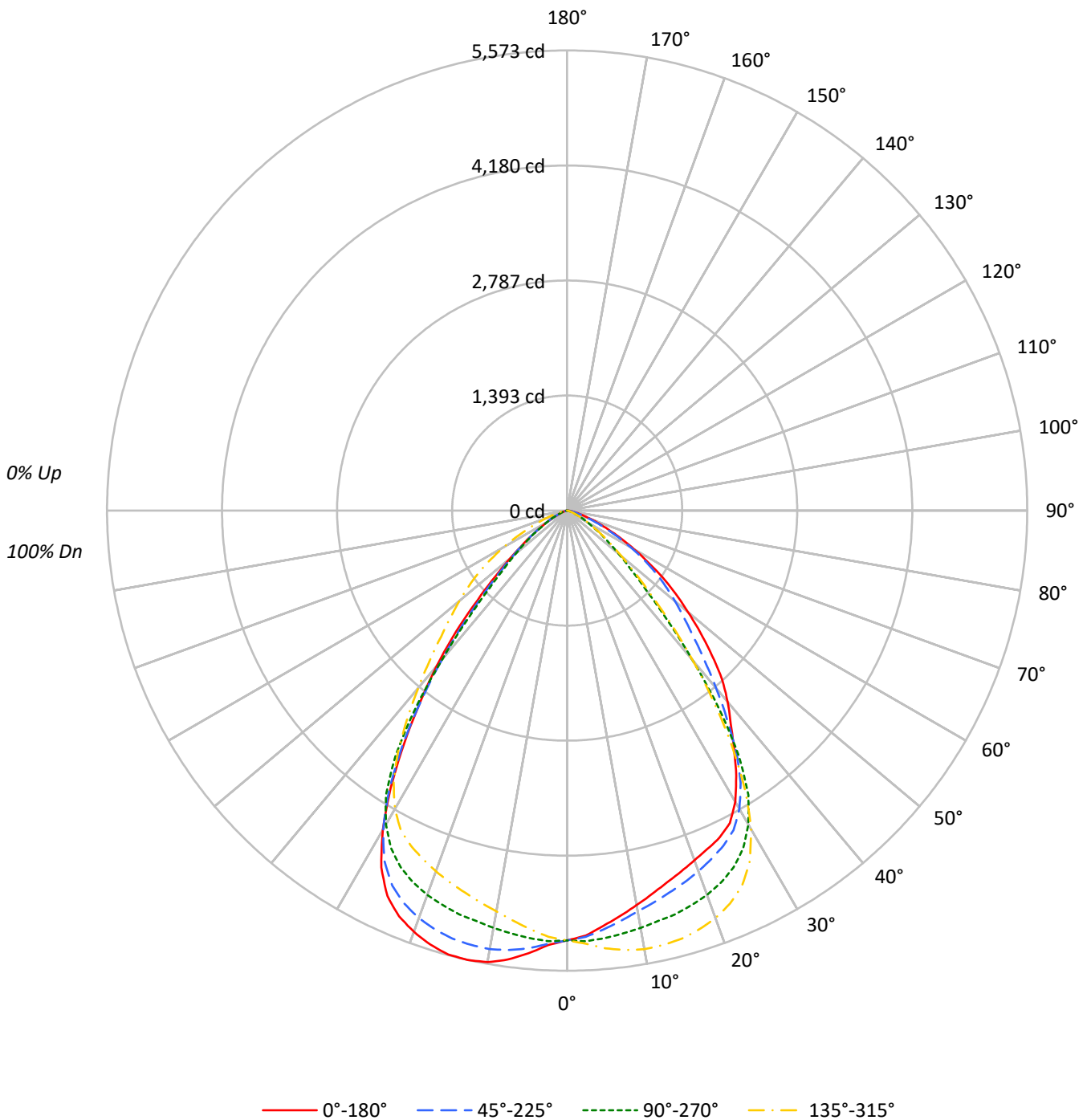
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	160494	160494	160494	160494
5°	156232	160872	166614	160872
10°	151907	160659	173869	160659
15°	148875	161613	177677	161613
20°	147859	162538	178131	162538
25°	148638	162210	175268	162210
30°	144962	156274	159084	156274
35°	132594	136325	129342	136325
40°	121736	94830	99029	94830
45°	108168	57852	66940	57852
50°	91556	38647	42916	38647
55°	75831	26370	27870	26370
60°	57837	17552	17706	17552
65°	40977	10937	10011	10937
70°	29554	7330	6645	7330
75°	18765	3634	3026	3634
80°	13088	2717	2255	2717
85°	11711	0	885	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.4	5.7
10°-20°	1434.6	16.4
20°-30°	2172.2	24.8
30°-40°	2177.1	24.8
40°-50°	1367.1	15.6
50°-60°	728.5	8.3
60°-70°	299.6	3.4
70°-80°	79.1	0.9
80°-90°	13.4	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°	4102.2	46.8
0°-40°	6279.3	71.6
0°-60°	8374.9	95.5
0°-90°	8767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8767.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5205	5205	5205	5205	5205	
5°	5047	5197	5383	5197	5047	476
15°	4663	5062	5566	5062	4663	1319
25°	4369	4768	5151	4768	4369	2004
35°	3522	3621	3436	3621	3522	2207
45°	2480	1327	1535	1327	2480	1908
55°	1410	490	518	490	1410	1258
65°	562	150	137	150	562	583
75°	158	30	25	30	158	178
85°	33	0	2	0	33	36
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°	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7
2.5°	5151.3	5146.2	5143.7	5148.8	5151.3	5161.5	5159.0	5164.0	5164.0	5166.6	5171.6
5°	5047.2	5044.5	5047.2	5047.2	5057.3	5067.4	5064.9	5072.6	5077.6	5090.4	5095.4
7.5°	4950.6	4950.6	4948.0	4958.1	4963.3	4978.5	4975.9	4988.7	4996.3	5009.0	5026.8
10°	4851.4	4851.4	4854.0	4861.6	4864.2	4887.0	4887.0	4904.8	4914.9	4927.7	4950.6
12.5°	4754.9	4754.9	4770.2	4765.0	4775.2	4793.0	4800.6	4818.4	4833.7	4859.1	4882.0
15°	4663.4	4663.4	4668.5	4681.1	4688.8	4711.7	4724.3	4744.7	4762.5	4787.9	4821.0
17.5°	4584.6	4582.1	4584.6	4599.9	4615.1	4635.4	4645.6	4671.0	4688.8	4721.8	4752.4
20°	4505.8	4511.0	4511.0	4523.6	4533.8	4559.2	4569.3	4597.4	4617.7	4648.1	4683.8
22.5°	4437.2	4434.7	4434.7	4452.5	4460.1	4482.9	4493.1	4518.5	4541.4	4566.8	4599.9
25°	4368.6	4363.5	4373.7	4376.2	4381.2	4406.7	4414.3	4432.1	4455.0	4477.9	4511.0
27.5°	4266.9	4261.9	4264.4	4274.5	4282.2	4302.5	4307.6	4325.4	4343.2	4363.5	4391.5
30°	4071.2	4066.2	4063.7	4081.4	4089.1	4104.3	4111.9	4142.4	4147.5	4170.4	4190.7
32.5°	3812.0	3809.5	3814.6	3829.8	3837.4	3857.8	3868.0	3885.7	3898.4	3911.2	3931.4
35°	3522.3	3517.2	3522.3	3537.6	3537.6	3555.4	3563.0	3570.6	3568.1	3570.6	3565.5
37.5°	3253.0	3250.4	3253.0	3260.5	3253.0	3260.5	3253.0	3237.7	3209.8	3179.2	3148.7
40°	3024.2	3026.7	3011.6	3021.7	2993.7	2988.6	2960.7	2922.5	2866.7	2805.7	2719.3
42.5°	2780.3	2772.6	2762.5	2767.5	2744.7	2726.8	2681.1	2632.9	2561.7	2460.1	2355.8
45°	2480.4	2477.9	2472.7	2470.2	2455.0	2437.2	2399.0	2343.1	2264.4	2160.2	2035.6
47.5°	2188.1	2180.5	2180.5	2183.0	2165.2	2162.7	2132.1	2083.9	2015.3	1913.6	1784.0
50°	1908.5	1906.0	1911.1	1921.3	1908.5	1903.5	1883.2	1850.1	1789.2	1702.7	1580.7
52.5°	1656.9	1654.4	1659.5	1672.2	1667.1	1672.2	1651.9	1626.5	1585.8	1501.9	1395.2
55°	1410.5	1410.5	1410.5	1425.7	1425.7	1425.7	1415.5	1400.3	1362.2	1301.2	1202.1
57.5°	1153.8	1156.3	1171.6	1174.1	1171.6	1176.7	1174.1	1158.8	1133.5	1090.3	1014.0
60°	937.8	937.8	945.4	953.0	950.4	953.0	953.0	945.4	920.0	884.4	823.4
62.5°	742.1	749.7	744.6	749.7	759.8	749.7	744.6	739.6	721.8	698.9	648.0
65°	561.6	566.7	566.7	569.3	564.1	566.7	556.6	549.0	538.8	513.4	480.3
67.5°	427.0	427.0	427.0	427.0	424.4	421.9	419.4	411.7	393.9	383.8	348.1
70°	327.8	312.6	312.6	312.6	312.6	315.2	307.5	297.4	292.3	274.5	249.1
72.5°	218.5	223.6	218.5	218.5	213.5	216.0	205.9	200.7	195.7	185.6	170.3
75°	157.5	144.9	149.9	152.5	144.9	149.9	139.8	129.6	129.6	122.0	114.3
77.5°	101.7	99.2	101.7	104.2	101.7	99.2	94.0	88.9	88.9	86.4	78.8
80°	73.7	71.1	71.1	71.1	68.6	71.1	66.1	66.1	61.0	58.5	53.3
82.5°	48.3	48.3	45.7	48.3	45.7	48.3	40.7	40.7	40.7	38.1	33.1
85°	33.1	27.9	27.9	30.5	25.4	30.5	27.9	25.4	22.9	22.9	20.3
87.5°	15.3	17.8	15.3	17.8	15.3	15.3	17.8	15.3	15.3	10.1	10.1
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°	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7
2.5°	5179.3	5181.8	5181.8	5192.0	5197.1	5199.6	5199.6	5220.0	5212.3	5217.5	5222.5
5°	5105.6	5120.8	5125.9	5125.9	5153.9	5164.0	5174.1	5197.1	5199.6	5214.8	5232.6
7.5°	5034.4	5052.2	5062.4	5085.2	5103.0	5120.8	5151.3	5166.6	5181.8	5202.2	5225.0
10°	4965.8	4986.2	5006.5	5024.2	5052.2	5075.1	5095.4	5130.9	5148.8	5176.8	5207.2
12.5°	4899.8	4927.7	4945.5	4975.9	5006.5	5026.8	5057.3	5090.4	5118.3	5146.2	5181.8
15°	4841.3	4874.3	4894.6	4927.7	4960.8	4988.7	5021.7	5062.4	5082.7	5115.8	5148.8
17.5°	4777.7	4813.4	4838.8	4869.2	4909.9	4940.4	4968.4	5009.0	5034.4	5070.0	5108.1
20°	4711.7	4747.3	4777.7	4808.2	4848.9	4879.4	4912.4	4953.1	4981.0	5016.6	5047.2
22.5°	4632.9	4666.0	4698.9	4734.5	4775.2	4800.6	4838.8	4874.3	4904.8	4937.8	4968.4
25°	4531.2	4571.9	4597.4	4630.3	4663.4	4691.3	4732.0	4767.5	4793.0	4823.5	4851.4
27.5°	4411.8	4442.3	4462.6	4490.6	4523.6	4549.0	4579.5	4615.1	4640.6	4668.5	4688.8
30°	4208.4	4236.5	4254.3	4274.5	4307.6	4330.5	4355.9	4388.9	4406.7	4427.1	4444.8
32.5°	3941.6	3964.5	3974.6	3989.9	4012.8	4035.6	4056.0	4084.0	4091.6	4104.3	4104.3
35°	3555.4	3560.4	3557.9	3563.0	3573.2	3585.8	3603.6	3621.4	3631.5	3631.5	3624.0
37.5°	3103.0	3072.5	3039.5	3014.1	3006.4	3001.3	3011.6	3019.1	3029.3	3034.4	3021.7
40°	2632.9	2564.3	2490.5	2424.4	2378.7	2358.4	2350.8	2355.8	2355.8	2373.6	2373.6
42.5°	2228.8	2122.0	2012.8	1913.6	1847.5	1796.8	1773.9	1773.9	1776.4	1789.2	1796.8
45°	1893.3	1758.6	1631.5	1522.3	1430.8	1364.7	1334.2	1326.6	1324.1	1329.1	1346.9
47.5°	1636.6	1496.9	1364.7	1230.0	1133.5	1067.4	1039.5	1029.2	1019.1	1029.2	1031.8
50°	1435.9	1291.0	1151.3	1016.5	914.9	856.4	820.8	805.6	803.0	803.0	808.2
52.5°	1252.8	1118.2	978.5	841.2	734.4	678.6	645.5	637.9	627.7	637.9	637.9
55°	1080.0	945.4	808.2	678.6	589.5	531.2	500.6	490.5	485.4	493.0	493.0
57.5°	892.1	777.6	650.6	533.7	444.8	404.1	381.2	368.5	365.9	371.0	365.9
60°	731.9	635.4	526.1	419.4	350.7	307.5	289.8	284.6	279.5	284.6	284.6
62.5°	579.4	498.1	409.1	327.8	269.4	238.9	218.5	218.5	216.0	216.0	218.5
65°	429.5	365.9	302.4	233.8	188.1	165.2	149.9	149.9	147.4	149.9	147.4
67.5°	312.6	269.4	218.5	170.3	134.7	122.0	111.8	104.2	109.3	104.2	101.7
70°	228.8	193.1	157.5	129.6	104.2	91.5	83.9	81.3	76.3	76.3	76.3
72.5°	152.5	129.6	106.7	83.9	68.6	55.9	53.3	48.3	43.2	45.7	50.8
75°	101.7	86.4	76.3	61.0	45.7	45.7	30.5	30.5	25.4	30.5	22.9
77.5°	71.1	58.5	45.7	38.1	30.5	27.9	20.3	20.3	17.8	17.8	17.8
80°	50.8	43.2	33.1	27.9	20.3	20.3	17.8	15.3	12.7	12.7	15.3
82.5°	30.5	22.9	22.9	20.3	12.7	10.1	7.6	10.1	5.1	5.1	5.1
85°	17.8	15.3	12.7	7.6	5.1	5.1	2.5	0.0	2.5	2.5	0.0
87.5°	10.1	5.1	5.1	2.5	0.0	2.5	2.5	0.0	0.0	0.0	5.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7
2.5°	5235.2	5232.6	5237.7	5237.7	5253.0	5250.4	5258.0	5258.0	5253.0	5255.5	5265.7
5°	5253.0	5260.7	5275.8	5288.6	5311.4	5321.6	5334.3	5347.1	5349.6	5357.2	5364.8
7.5°	5253.0	5278.4	5296.2	5319.0	5349.6	5367.3	5395.3	5418.2	5428.3	5441.0	5456.3
10°	5242.8	5268.2	5301.2	5326.7	5364.8	5392.8	5420.7	5456.3	5471.5	5491.8	5512.2
12.5°	5222.5	5250.4	5286.0	5319.0	5362.2	5387.6	5423.2	5456.3	5479.2	5507.1	5530.0
15°	5192.0	5225.0	5258.0	5291.1	5336.8	5367.3	5400.4	5438.5	5461.4	5491.8	5512.2
17.5°	5143.7	5179.3	5209.8	5240.3	5283.5	5319.0	5349.6	5385.1	5408.0	5433.5	5461.4
20°	5085.2	5118.3	5151.3	5176.8	5220.0	5250.4	5283.5	5316.5	5334.3	5339.4	5382.6
22.5°	5011.6	5034.4	5059.8	5100.5	5125.9	5153.9	5184.4	5214.8	5232.6	5260.7	5275.8
25°	4889.5	4912.4	4940.4	4958.1	4988.7	5011.6	5042.0	5075.1	5085.2	5105.6	5120.8
27.5°	4719.3	4732.0	4744.7	4759.9	4777.7	4790.5	4808.2	4823.5	4833.7	4843.8	4854.0
30°	4449.9	4449.9	4449.9	4439.7	4447.4	4455.0	4457.5	4455.0	4455.0	4452.5	4452.5
32.5°	4094.1	4073.8	4050.9	4030.6	4023.0	4012.8	4007.7	4000.1	3987.4	3979.8	3982.3
35°	3613.8	3568.1	3540.1	3514.7	3494.4	3479.1	3471.5	3463.9	3461.4	3451.2	3441.0
37.5°	3014.1	2981.0	2960.7	2945.4	2927.7	2912.4	2914.9	2917.5	2925.0	2920.0	2922.5
40°	2378.7	2371.1	2378.7	2360.9	2355.8	2360.9	2373.6	2391.5	2401.6	2411.8	2429.5
42.5°	1809.4	1822.1	1840.0	1840.0	1847.5	1857.8	1872.9	1901.0	1916.1	1933.9	1954.3
45°	1362.2	1377.4	1400.3	1407.9	1413.0	1425.7	1443.5	1466.3	1476.5	1491.8	1509.5
47.5°	1049.6	1059.7	1072.4	1085.2	1097.8	1102.9	1120.7	1120.7	1133.5	1143.6	1148.7
50°	818.3	828.5	838.6	846.2	851.4	859.0	864.0	871.7	874.2	879.3	881.8
52.5°	640.4	653.1	653.1	658.2	665.8	673.4	670.9	673.4	676.0	676.0	683.6
55°	500.6	500.6	508.3	508.3	513.4	510.8	513.4	513.4	513.4	513.4	515.9
57.5°	373.5	376.2	383.8	378.7	376.2	381.2	376.2	381.2	378.7	383.8	376.2
60°	287.1	287.1	289.8	289.8	292.3	292.3	292.3	289.8	289.8	287.1	287.1
62.5°	216.0	218.5	221.1	218.5	218.5	218.5	216.0	216.0	213.5	210.9	210.9
65°	144.9	142.4	147.4	142.4	144.9	144.9	142.4	144.9	137.2	139.8	137.2
67.5°	104.2	101.7	99.2	101.7	99.2	96.5	96.5	99.2	101.7	94.0	94.0
70°	68.6	71.1	68.6	71.1	73.7	73.7	71.1	68.6	71.1	66.1	68.6
72.5°	43.2	43.2	43.2	43.2	43.2	45.7	45.7	45.7	40.7	40.7	38.1
75°	20.3	27.9	22.9	20.3	27.9	27.9	25.4	25.4	22.9	22.9	22.9
77.5°	20.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	12.7	15.3	12.7
80°	10.1	10.1	10.1	7.6	10.1	10.1	12.7	10.1	10.1	7.6	12.7
82.5°	5.1	5.1	5.1	0.0	2.5	5.1	5.1	2.5	5.1	5.1	2.5
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: P248653

CATALOG NUMBER: LD8B90D010 ER8B90827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7
2.5°	5263.2	5260.7	5263.2	5265.7	5263.2	5260.7	5263.2	5265.7	5255.5	5253.0	5258.0
5°	5375.0	5375.0	5380.0	5382.6	5380.0	5375.0	5375.0	5364.8	5357.2	5349.6	5347.1
7.5°	5471.5	5476.7	5481.7	5484.2	5481.7	5476.7	5471.5	5456.3	5441.0	5428.3	5418.2
10°	5530.0	5537.6	5547.8	5552.8	5547.8	5537.6	5530.0	5512.2	5491.8	5471.5	5456.3
12.5°	5555.4	5563.1	5575.7	5573.2	5575.7	5563.1	5555.4	5530.0	5507.1	5479.2	5456.3
15°	5537.6	5547.8	5560.4	5565.6	5560.4	5547.8	5537.6	5512.2	5491.8	5461.4	5438.5
17.5°	5481.7	5497.0	5504.6	5512.2	5504.6	5497.0	5481.7	5461.4	5433.5	5408.0	5385.1
20°	5405.4	5415.7	5425.8	5428.3	5425.8	5415.7	5405.4	5382.6	5339.4	5334.3	5316.5
22.5°	5296.2	5303.9	5326.7	5319.0	5326.7	5303.9	5296.2	5275.8	5260.7	5232.6	5214.8
25°	5138.6	5146.2	5148.8	5151.3	5148.8	5146.2	5138.6	5120.8	5105.6	5085.2	5075.1
27.5°	4866.7	4866.7	4871.7	4874.3	4871.7	4866.7	4866.7	4854.0	4843.8	4833.7	4823.5
30°	4455.0	4455.0	4455.0	4467.8	4455.0	4455.0	4455.0	4452.5	4452.5	4455.0	4455.0
32.5°	3979.8	3974.6	3969.6	3974.6	3969.6	3974.6	3979.8	3982.3	3979.8	3987.4	4000.1
35°	3441.0	3438.4	3446.1	3435.9	3446.1	3438.4	3441.0	3441.0	3451.2	3461.4	3463.9
37.5°	2925.0	2920.0	2930.2	2920.0	2930.2	2920.0	2925.0	2922.5	2920.0	2925.0	2917.5
40°	2434.7	2439.7	2439.7	2460.1	2439.7	2439.7	2434.7	2429.5	2411.8	2401.6	2391.5
42.5°	1964.5	1979.7	1974.6	1989.9	1974.6	1979.7	1964.5	1954.3	1933.9	1916.1	1901.0
45°	1519.7	1529.9	1529.9	1535.0	1529.9	1529.9	1519.7	1509.5	1491.8	1476.5	1466.3
47.5°	1166.4	1166.4	1166.4	1169.1	1166.4	1166.4	1166.4	1148.7	1143.6	1133.5	1120.7
50°	886.9	889.5	892.1	894.6	892.1	889.5	886.9	881.8	879.3	874.2	871.7
52.5°	681.1	683.6	678.6	683.6	678.6	683.6	681.1	683.6	676.0	676.0	673.4
55°	515.9	513.4	515.9	518.4	515.9	513.4	515.9	515.9	513.4	513.4	513.4
57.5°	378.7	373.5	373.5	373.5	373.5	373.5	378.7	376.2	383.8	378.7	381.2
60°	282.1	284.6	284.6	287.1	284.6	284.6	282.1	287.1	287.1	289.8	289.8
62.5°	208.4	216.0	210.9	216.0	210.9	216.0	208.4	210.9	210.9	213.5	216.0
65°	134.7	134.7	134.7	137.2	134.7	134.7	134.7	137.2	139.8	137.2	144.9
67.5°	91.5	94.0	99.2	96.5	99.2	94.0	91.5	94.0	94.0	101.7	99.2
70°	73.7	66.1	66.1	73.7	66.1	66.1	73.7	68.6	66.1	71.1	68.6
72.5°	43.2	38.1	43.2	43.2	43.2	38.1	43.2	38.1	40.7	40.7	45.7
75°	22.9	20.3	17.8	25.4	17.8	20.3	22.9	22.9	22.9	22.9	25.4
77.5°	15.3	12.7	17.8	17.8	17.8	12.7	15.3	12.7	15.3	12.7	15.3
80°	7.6	10.1	7.6	12.7	7.6	10.1	7.6	12.7	7.6	10.1	10.1
82.5°	2.5	5.1	5.1	5.1	5.1	5.1	2.5	2.5	5.1	5.1	2.5
85°	0.0	5.1	2.5	2.5	2.5	5.1	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.0	0.0	2.5	0.0	0.0	2.5	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: P248653

CATALOG NUMBER: LD8B90D010 ER8B90827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7
2.5°	5258.0	5250.4	5253.0	5237.7	5237.7	5232.6	5235.2	5222.5	5217.5	5212.3	5220.0
5°	5334.3	5321.6	5311.4	5288.6	5275.8	5260.7	5253.0	5232.6	5214.8	5199.6	5197.1
7.5°	5395.3	5367.3	5349.6	5319.0	5296.2	5278.4	5253.0	5225.0	5202.2	5181.8	5166.6
10°	5420.7	5392.8	5364.8	5326.7	5301.2	5268.2	5242.8	5207.2	5176.8	5148.8	5130.9
12.5°	5423.2	5387.6	5362.2	5319.0	5286.0	5250.4	5222.5	5181.8	5146.2	5118.3	5090.4
15°	5400.4	5367.3	5336.8	5291.1	5258.0	5225.0	5192.0	5148.8	5115.8	5082.7	5062.4
17.5°	5349.6	5319.0	5283.5	5240.3	5209.8	5179.3	5143.7	5108.1	5070.0	5034.4	5009.0
20°	5283.5	5250.4	5220.0	5176.8	5151.3	5118.3	5085.2	5047.2	5016.6	4981.0	4953.1
22.5°	5184.4	5153.9	5125.9	5100.5	5059.8	5034.4	5011.6	4968.4	4937.8	4904.8	4874.3
25°	5042.0	5011.6	4988.7	4958.1	4940.4	4912.4	4889.5	4851.4	4823.5	4793.0	4767.5
27.5°	4808.2	4790.5	4777.7	4759.9	4744.7	4732.0	4719.3	4688.8	4668.5	4640.6	4615.1
30°	4457.5	4455.0	4447.4	4439.7	4449.9	4449.9	4449.9	4444.8	4427.1	4406.7	4388.9
32.5°	4007.7	4012.8	4023.0	4030.6	4050.9	4073.8	4094.1	4104.3	4104.3	4091.6	4084.0
35°	3471.5	3479.1	3494.4	3514.7	3540.1	3568.1	3613.8	3624.0	3631.5	3631.5	3621.4
37.5°	2914.9	2912.4	2927.7	2945.4	2960.7	2981.0	3014.1	3021.7	3034.4	3029.3	3019.1
40°	2373.6	2360.9	2355.8	2360.9	2378.7	2371.1	2378.7	2373.6	2373.6	2355.8	2355.8
42.5°	1872.9	1857.8	1847.5	1840.0	1840.0	1822.1	1809.4	1796.8	1789.2	1776.4	1773.9
45°	1443.5	1425.7	1413.0	1407.9	1400.3	1377.4	1362.2	1346.9	1329.1	1324.1	1326.6
47.5°	1120.7	1102.9	1097.8	1085.2	1072.4	1059.7	1049.6	1031.8	1029.2	1019.1	1029.2
50°	864.0	859.0	851.4	846.2	838.6	828.5	818.3	808.2	803.0	803.0	805.6
52.5°	670.9	673.4	665.8	658.2	653.1	653.1	640.4	637.9	637.9	627.7	637.9
55°	513.4	510.8	513.4	508.3	508.3	500.6	500.6	493.0	493.0	485.4	490.5
57.5°	376.2	381.2	376.2	378.7	383.8	376.2	373.5	365.9	371.0	365.9	368.5
60°	292.3	292.3	292.3	289.8	289.8	287.1	287.1	284.6	284.6	279.5	284.6
62.5°	216.0	218.5	218.5	218.5	221.1	218.5	216.0	218.5	216.0	216.0	218.5
65°	142.4	144.9	144.9	142.4	147.4	142.4	144.9	147.4	149.9	147.4	149.9
67.5°	96.5	96.5	99.2	101.7	99.2	101.7	104.2	101.7	104.2	109.3	104.2
70°	71.1	73.7	73.7	71.1	68.6	71.1	68.6	76.3	76.3	76.3	81.3
72.5°	45.7	45.7	43.2	43.2	43.2	43.2	43.2	50.8	45.7	43.2	48.3
75°	25.4	27.9	27.9	20.3	22.9	27.9	20.3	22.9	30.5	25.4	30.5
77.5°	15.3	15.3	15.3	15.3	15.3	15.3	20.3	17.8	17.8	17.8	20.3
80°	12.7	10.1	10.1	7.6	10.1	10.1	10.1	15.3	12.7	12.7	15.3
82.5°	5.1	5.1	2.5	0.0	5.1	5.1	5.1	5.1	5.1	5.1	10.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	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: P248653

CATALOG NUMBER: LD8B90D010 ER8B90827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7
2.5°	5199.6	5199.6	5197.1	5192.0	5181.8	5181.8	5179.3	5171.6	5166.6	5164.0	5164.0
5°	5174.1	5164.0	5153.9	5125.9	5125.9	5120.8	5105.6	5095.4	5090.4	5077.6	5072.6
7.5°	5151.3	5120.8	5103.0	5085.2	5062.4	5052.2	5034.4	5026.8	5009.0	4996.3	4988.7
10°	5095.4	5075.1	5052.2	5024.2	5006.5	4986.2	4965.8	4950.6	4927.7	4914.9	4904.8
12.5°	5057.3	5026.8	5006.5	4975.9	4945.5	4927.7	4899.8	4882.0	4859.1	4833.7	4818.4
15°	5021.7	4988.7	4960.8	4927.7	4894.6	4874.3	4841.3	4821.0	4787.9	4762.5	4744.7
17.5°	4968.4	4940.4	4909.9	4869.2	4838.8	4813.4	4777.7	4752.4	4721.8	4688.8	4671.0
20°	4912.4	4879.4	4848.9	4808.2	4777.7	4747.3	4711.7	4683.8	4648.1	4617.7	4597.4
22.5°	4838.8	4800.6	4775.2	4734.5	4698.9	4666.0	4632.9	4599.9	4566.8	4541.4	4518.5
25°	4732.0	4691.3	4663.4	4630.3	4597.4	4571.9	4531.2	4511.0	4477.9	4455.0	4432.1
27.5°	4579.5	4549.0	4523.6	4490.6	4462.6	4442.3	4411.8	4391.5	4363.5	4343.2	4325.4
30°	4355.9	4330.5	4307.6	4274.5	4254.3	4236.5	4208.4	4190.7	4170.4	4147.5	4142.4
32.5°	4056.0	4035.6	4012.8	3989.9	3974.6	3964.5	3941.6	3931.4	3911.2	3898.4	3885.7
35°	3603.6	3585.8	3573.2	3563.0	3557.9	3560.4	3555.4	3565.5	3570.6	3568.1	3570.6
37.5°	3011.6	3001.3	3006.4	3014.1	3039.5	3072.5	3103.0	3148.7	3179.2	3209.8	3237.7
40°	2350.8	2358.4	2378.7	2424.4	2490.5	2564.3	2632.9	2719.3	2805.7	2866.7	2922.5
42.5°	1773.9	1796.8	1847.5	1913.6	2012.8	2122.0	2228.8	2355.8	2460.1	2561.7	2632.9
45°	1334.2	1364.7	1430.8	1522.3	1631.5	1758.6	1893.3	2035.6	2160.2	2264.4	2343.1
47.5°	1039.5	1067.4	1133.5	1230.0	1364.7	1496.9	1636.6	1784.0	1913.6	2015.3	2083.9
50°	820.8	856.4	914.9	1016.5	1151.3	1291.0	1435.9	1580.7	1702.7	1789.2	1850.1
52.5°	645.5	678.6	734.4	841.2	978.5	1118.2	1252.8	1395.2	1501.9	1585.8	1626.5
55°	500.6	531.2	589.5	678.6	808.2	945.4	1080.0	1202.1	1301.2	1362.2	1400.3
57.5°	381.2	404.1	444.8	533.7	650.6	777.6	892.1	1014.0	1090.3	1133.5	1158.8
60°	289.8	307.5	350.7	419.4	526.1	635.4	731.9	823.4	884.4	920.0	945.4
62.5°	218.5	238.9	269.4	327.8	409.1	498.1	579.4	648.0	698.9	721.8	739.6
65°	149.9	165.2	188.1	233.8	302.4	365.9	429.5	480.3	513.4	538.8	549.0
67.5°	111.8	122.0	134.7	170.3	218.5	269.4	312.6	348.1	383.8	393.9	411.7
70°	83.9	91.5	104.2	129.6	157.5	193.1	228.8	249.1	274.5	292.3	297.4
72.5°	53.3	55.9	68.6	83.9	106.7	129.6	152.5	170.3	185.6	195.7	200.7
75°	30.5	45.7	45.7	61.0	76.3	86.4	101.7	114.3	122.0	129.6	129.6
77.5°	20.3	27.9	30.5	38.1	45.7	58.5	71.1	78.8	86.4	88.9	88.9
80°	17.8	20.3	20.3	27.9	33.1	43.2	50.8	53.3	58.5	61.0	66.1
82.5°	7.6	10.1	12.7	20.3	22.9	22.9	30.5	33.1	38.1	40.7	40.7
85°	2.5	5.1	5.1	7.6	12.7	15.3	17.8	20.3	22.9	22.9	25.4
87.5°	2.5	2.5	0.0	2.5	5.1	5.1	10.1	10.1	10.1	15.3	15.3
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: P248653

CATALOG NUMBER: LD8B90D010 ER8B90827 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7
2.5°	5159.0	5161.5	5151.3	5148.8	5143.7	5146.2	5151.3
5°	5064.9	5067.4	5057.3	5047.2	5047.2	5044.5	5047.2
7.5°	4975.9	4978.5	4963.3	4958.1	4948.0	4950.6	4950.6
10°	4887.0	4887.0	4864.2	4861.6	4854.0	4851.4	4851.4
12.5°	4800.6	4793.0	4775.2	4765.0	4770.2	4754.9	4754.9
15°	4724.3	4711.7	4688.8	4681.1	4668.5	4663.4	4663.4
17.5°	4645.6	4635.4	4615.1	4599.9	4584.6	4582.1	4584.6
20°	4569.3	4559.2	4533.8	4523.6	4511.0	4511.0	4505.8
22.5°	4493.1	4482.9	4460.1	4452.5	4434.7	4434.7	4437.2
25°	4414.3	4406.7	4381.2	4376.2	4373.7	4363.5	4368.6
27.5°	4307.6	4302.5	4282.2	4274.5	4264.4	4261.9	4266.9
30°	4111.9	4104.3	4089.1	4081.4	4063.7	4066.2	4071.2
32.5°	3868.0	3857.8	3837.4	3829.8	3814.6	3809.5	3812.0
35°	3563.0	3555.4	3537.6	3537.6	3522.3	3517.2	3522.3
37.5°	3253.0	3260.5	3253.0	3260.5	3253.0	3250.4	3253.0
40°	2960.7	2988.6	2993.7	3021.7	3011.6	3026.7	3024.2
42.5°	2681.1	2726.8	2744.7	2767.5	2762.5	2772.6	2780.3
45°	2399.0	2437.2	2455.0	2470.2	2472.7	2477.9	2480.4
47.5°	2132.1	2162.7	2165.2	2183.0	2180.5	2180.5	2188.1
50°	1883.2	1903.5	1908.5	1921.3	1911.1	1906.0	1908.5
52.5°	1651.9	1672.2	1667.1	1672.2	1659.5	1654.4	1656.9
55°	1415.5	1425.7	1425.7	1425.7	1410.5	1410.5	1410.5
57.5°	1174.1	1176.7	1171.6	1174.1	1171.6	1156.3	1153.8
60°	953.0	953.0	950.4	953.0	945.4	937.8	937.8
62.5°	744.6	749.7	759.8	749.7	744.6	749.7	742.1
65°	556.6	566.7	564.1	569.3	566.7	566.7	561.6
67.5°	419.4	421.9	424.4	427.0	427.0	427.0	427.0
70°	307.5	315.2	312.6	312.6	312.6	312.6	327.8
72.5°	205.9	216.0	213.5	218.5	218.5	223.6	218.5
75°	139.8	149.9	144.9	152.5	149.9	144.9	157.5
77.5°	94.0	99.2	101.7	104.2	101.7	99.2	101.7
80°	66.1	71.1	68.6	71.1	71.1	71.1	73.7
82.5°	40.7	48.3	45.7	48.3	45.7	48.3	48.3
85°	27.9	30.5	25.4	30.5	27.9	27.9	33.1
87.5°	17.8	15.3	15.3	17.8	15.3	17.8	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)