

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: P248854

Luminaire Tested: **LD8B150D010 ER8B1509727 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248854
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 ER8B1509727 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10472.0 lumens
Efficiency: N/A
Efficacy: 66.1 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

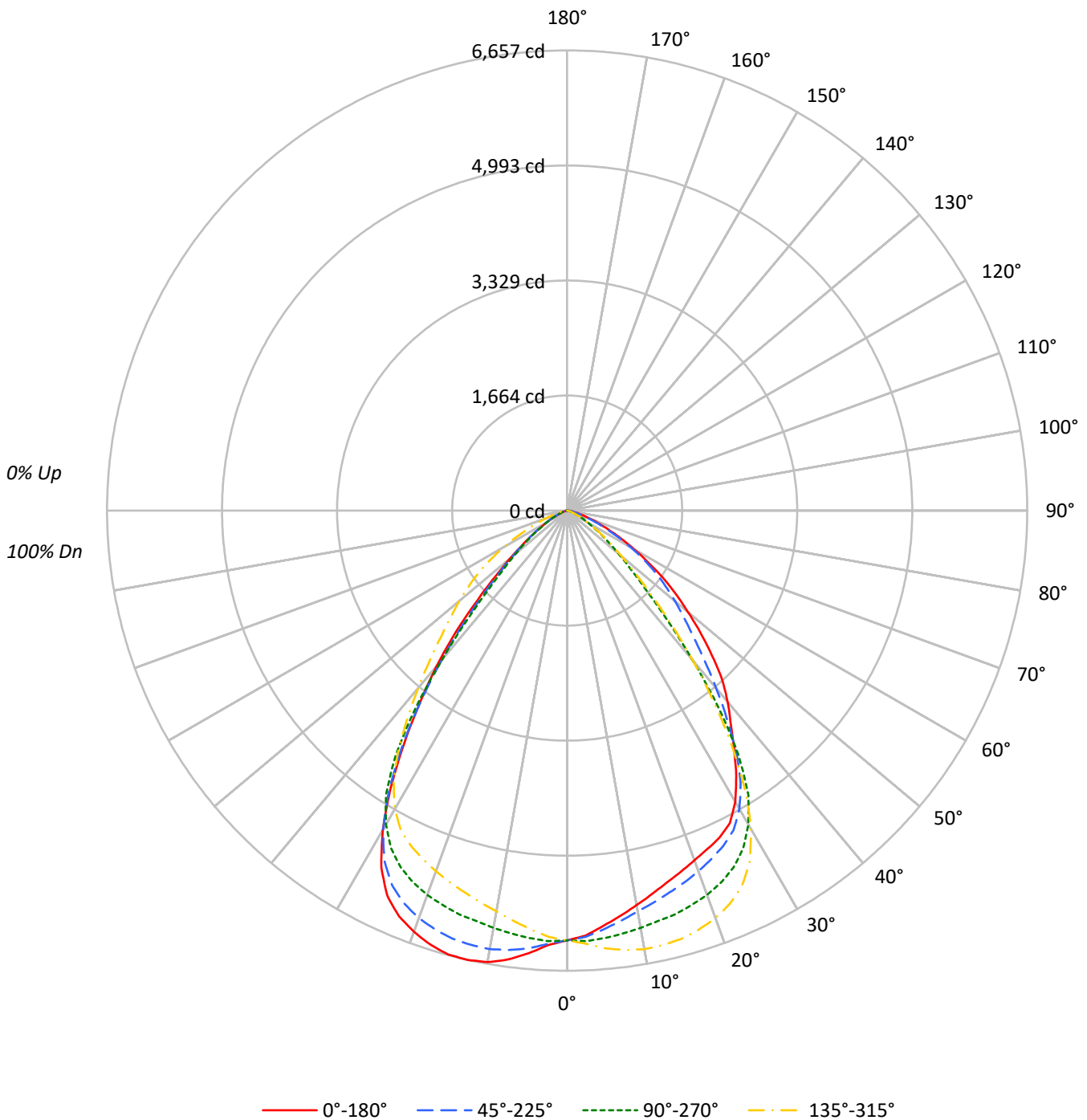
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	591.7	5.7
10°-20°	1713.5	16.4
20°-30°	2594.7	24.8
30°-40°	2600.5	24.8
40°-50°	1633.0	15.6
50°-60°	870.2	8.3
60°-70°	357.8	3.4
70°-80°	94.5	0.9
80°-90°	16.0	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°	4899.9	46.8
0°-40°	7500.4	71.6
0°-60°	10003.6	95.5
0°-90°	10472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10472.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6217	6217	6217	6217	6217	
5°	6029	6208	6429	6208	6029	569
15°	5570	6047	6648	6047	5570	1575
25°	5218	5695	6153	5695	5218	2393
35°	4207	4326	4104	4326	4207	2636
45°	2963	1585	1834	1585	2963	2279
55°	1685	586	619	586	1685	1502
65°	671	179	164	179	671	696
75°	188	36	30	36	188	213
85°	40	0	3	0	40	43
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°	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9
2.5°	6153.2	6147.0	6144.1	6150.2	6153.2	6165.3	6162.3	6168.3	6168.3	6171.4	6177.4
5°	6028.7	6025.6	6028.7	6028.7	6040.8	6053.0	6050.0	6059.1	6065.1	6080.3	6086.3
7.5°	5913.4	5913.4	5910.3	5922.4	5928.5	5946.8	5943.6	5958.9	5968.0	5983.1	6004.4
10°	5794.9	5794.9	5797.9	5807.1	5810.2	5837.4	5837.4	5858.7	5870.8	5886.0	5913.4
12.5°	5679.6	5679.6	5697.9	5691.7	5703.9	5725.1	5734.2	5755.5	5773.7	5804.1	5831.4
15°	5570.3	5570.3	5576.4	5591.5	5600.7	5628.0	5643.1	5667.5	5688.7	5719.1	5758.6
17.5°	5476.2	5473.2	5476.2	5494.4	5512.7	5536.9	5549.0	5579.4	5600.7	5640.1	5676.6
20°	5382.1	5388.2	5388.2	5403.4	5415.5	5445.8	5458.0	5491.4	5515.7	5552.0	5594.7
22.5°	5300.2	5297.2	5297.2	5318.4	5327.5	5354.8	5366.9	5397.2	5424.6	5455.0	5494.4
25°	5218.2	5212.1	5224.3	5227.3	5233.3	5263.7	5272.8	5294.0	5321.4	5348.8	5388.2
27.5°	5096.7	5090.7	5093.7	5105.9	5115.0	5139.2	5145.3	5166.6	5187.8	5212.1	5245.6
30°	4863.0	4857.0	4854.0	4875.2	4884.3	4902.4	4911.6	4948.1	4954.0	4981.4	5005.7
32.5°	4553.3	4550.3	4556.5	4574.6	4583.7	4608.1	4620.2	4641.4	4656.5	4671.8	4696.0
35°	4207.4	4201.2	4207.4	4225.6	4225.6	4246.8	4256.0	4265.0	4262.0	4265.0	4259.0
37.5°	3885.6	3882.5	3885.6	3894.6	3885.6	3894.6	3885.6	3867.4	3834.0	3797.5	3761.0
40°	3612.4	3615.4	3597.2	3609.4	3575.9	3569.9	3536.5	3490.9	3424.2	3351.3	3248.1
42.5°	3321.0	3311.9	3299.7	3305.7	3278.5	3257.1	3202.5	3144.9	3059.8	2938.5	2813.9
45°	2962.8	2959.8	2953.6	2950.6	2932.4	2911.2	2865.5	2798.8	2704.7	2580.3	2431.5
47.5°	2613.7	2604.5	2604.5	2607.5	2586.3	2583.3	2546.8	2489.2	2407.2	2285.8	2131.0
50°	2279.7	2276.7	2282.8	2294.9	2279.7	2273.7	2249.4	2209.9	2137.1	2033.9	1888.1
52.5°	1979.2	1976.2	1982.3	1997.4	1991.3	1997.4	1973.2	1942.8	1894.2	1794.0	1666.6
55°	1684.8	1684.8	1684.8	1702.9	1702.9	1702.9	1690.8	1672.7	1627.1	1554.2	1435.9
57.5°	1378.2	1381.2	1399.4	1402.4	1399.4	1405.5	1402.4	1384.2	1353.9	1302.3	1211.2
60°	1120.2	1120.2	1129.3	1138.4	1135.3	1138.4	1138.4	1129.3	1098.9	1056.4	983.6
62.5°	886.4	895.5	889.4	895.5	907.6	895.5	889.4	883.4	862.1	834.8	774.1
65°	670.8	677.0	677.0	680.0	673.8	677.0	664.8	655.7	643.6	613.2	573.8
67.5°	510.0	510.0	510.0	510.0	506.9	503.9	500.9	491.8	470.6	458.4	415.8
70°	391.6	373.3	373.3	373.3	373.3	376.5	367.3	355.2	349.1	327.9	297.5
72.5°	261.0	267.1	261.0	261.0	255.0	258.0	245.9	239.8	233.8	221.7	203.4
75°	188.2	173.1	179.0	182.2	173.1	179.0	166.9	154.8	154.8	145.7	136.6
77.5°	121.4	118.5	121.4	124.4	121.4	118.5	112.3	106.2	106.2	103.2	94.1
80°	88.1	85.0	85.0	85.0	82.0	85.0	79.0	79.0	72.8	69.8	63.7
82.5°	57.7	57.7	54.6	57.7	54.6	57.7	48.6	48.6	48.6	45.5	39.5
85°	39.5	33.4	33.4	36.5	30.4	36.5	33.4	30.4	27.4	27.4	24.2
87.5°	18.2	21.2	18.2	21.2	18.2	18.2	21.2	18.2	18.2	12.1	12.1
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°	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9
2.5°	6186.5	6189.5	6189.5	6201.8	6207.8	6210.8	6210.8	6235.1	6226.0	6232.1	6238.1
5°	6098.6	6116.7	6122.8	6122.8	6156.2	6168.3	6180.4	6207.8	6210.8	6229.0	6250.3
7.5°	6013.5	6034.7	6047.0	6074.2	6095.4	6116.7	6153.2	6171.4	6189.5	6213.9	6241.1
10°	5931.5	5955.9	5980.1	6001.4	6034.7	6062.1	6086.3	6128.8	6150.2	6183.5	6219.9
12.5°	5852.7	5886.0	5907.3	5943.6	5980.1	6004.4	6040.8	6080.3	6113.7	6147.0	6189.5
15°	5782.8	5822.3	5846.5	5886.0	5925.5	5958.9	5998.4	6047.0	6071.2	6110.7	6150.2
17.5°	5706.9	5749.5	5779.8	5816.2	5864.8	5901.2	5934.6	5983.1	6013.5	6056.0	6101.6
20°	5628.0	5670.5	5706.9	5743.3	5791.9	5828.3	5867.8	5916.4	5949.8	5992.2	6028.7
22.5°	5533.9	5573.4	5612.8	5655.3	5703.9	5734.2	5779.8	5822.3	5858.7	5898.2	5934.6
25°	5412.5	5461.1	5491.4	5530.8	5570.3	5603.7	5652.3	5694.7	5725.1	5761.6	5794.9
27.5°	5269.8	5306.3	5330.5	5363.9	5403.4	5433.7	5470.1	5512.7	5543.1	5576.4	5600.7
30°	5026.9	5060.4	5081.6	5105.9	5145.3	5172.7	5203.1	5242.4	5263.7	5288.0	5309.3
32.5°	4708.2	4735.5	4747.6	4765.9	4793.2	4820.5	4844.8	4878.2	4887.3	4902.4	4902.4
35°	4246.8	4252.8	4249.8	4256.0	4268.1	4283.2	4304.4	4325.7	4337.8	4337.8	4328.8
37.5°	3706.4	3670.1	3630.6	3600.2	3591.1	3585.0	3597.2	3606.2	3618.5	3624.5	3609.4
40°	3144.9	3063.0	2974.9	2895.9	2841.3	2817.1	2807.9	2813.9	2813.9	2835.2	2835.2
42.5°	2662.3	2534.7	2404.2	2285.8	2206.8	2146.2	2118.9	2118.9	2121.9	2137.1	2146.2
45°	2261.6	2100.6	1948.8	1818.4	1709.0	1630.1	1593.7	1584.6	1581.6	1587.6	1608.8
47.5°	1954.9	1788.0	1630.1	1469.3	1353.9	1275.0	1241.6	1229.4	1217.2	1229.4	1232.5
50°	1715.2	1542.1	1375.2	1214.2	1092.8	1022.9	980.5	962.2	959.2	959.2	965.3
52.5°	1496.5	1335.7	1168.8	1004.8	877.3	810.5	771.1	761.9	749.8	761.9	761.9
55°	1290.1	1129.3	965.3	810.5	704.2	634.5	598.0	585.9	579.8	588.9	588.9
57.5°	1065.6	928.9	777.2	637.5	531.3	482.7	455.3	440.2	437.1	443.2	437.1
60°	874.3	758.9	628.4	500.9	418.9	367.3	346.1	340.0	333.9	340.0	340.0
62.5°	692.1	595.0	488.7	391.6	321.7	285.4	261.0	261.0	258.0	258.0	261.0
65°	513.0	437.1	361.2	279.3	224.7	197.3	179.0	179.0	176.1	179.0	176.1
67.5°	373.3	321.7	261.0	203.4	160.9	145.7	133.6	124.4	130.6	124.4	121.4
70°	273.3	230.7	188.2	154.8	124.4	109.3	100.2	97.1	91.1	91.1	91.1
72.5°	182.2	154.8	127.4	100.2	82.0	66.7	63.7	57.7	51.6	54.6	60.7
75°	121.4	103.2	91.1	72.8	54.6	54.6	36.5	36.5	30.4	36.5	27.4
77.5°	85.0	69.8	54.6	45.5	36.5	33.4	24.2	24.2	21.2	21.2	21.2
80°	60.7	51.6	39.5	33.4	24.2	24.2	21.2	18.2	15.1	15.1	18.2
82.5°	36.5	27.4	27.4	24.2	15.1	12.1	9.1	12.1	6.1	6.1	6.1
85°	21.2	18.2	15.1	9.1	6.1	6.1	3.0	0.0	3.0	3.0	0.0
87.5°	12.1	6.1	6.1	3.0	0.0	3.0	3.0	0.0	0.0	0.0	6.1
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°	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9
2.5°	6253.4	6250.3	6256.4	6256.4	6274.6	6271.5	6280.6	6280.6	6274.6	6277.6	6289.7
5°	6274.6	6283.7	6301.9	6317.1	6344.3	6356.6	6371.7	6386.9	6389.9	6399.1	6408.2
7.5°	6274.6	6305.0	6326.2	6353.5	6389.9	6411.2	6444.5	6471.9	6484.0	6499.2	6517.4
10°	6262.4	6292.7	6332.2	6362.6	6408.2	6441.6	6474.9	6517.4	6535.6	6559.9	6584.2
12.5°	6238.1	6271.5	6314.0	6353.5	6405.1	6435.4	6477.9	6517.4	6544.8	6578.1	6605.5
15°	6201.8	6241.1	6280.6	6320.1	6374.7	6411.2	6450.7	6496.2	6523.5	6559.9	6584.2
17.5°	6144.1	6186.5	6223.0	6259.4	6311.0	6353.5	6389.9	6432.4	6459.8	6490.2	6523.5
20°	6074.2	6113.7	6153.2	6183.5	6235.1	6271.5	6311.0	6350.5	6371.7	6377.8	6429.4
22.5°	5986.2	6013.5	6043.8	6092.4	6122.8	6156.2	6192.7	6229.0	6250.3	6283.7	6301.9
25°	5840.4	5867.8	5901.2	5922.4	5958.9	5986.2	6022.6	6062.1	6074.2	6098.6	6116.7
27.5°	5637.1	5652.3	5667.5	5685.6	5706.9	5722.1	5743.3	5761.6	5773.7	5785.8	5797.9
30°	5315.3	5315.3	5315.3	5303.2	5312.3	5321.4	5324.4	5321.4	5321.4	5318.4	5318.4
32.5°	4890.3	4866.1	4838.7	4814.5	4805.4	4793.2	4787.1	4778.0	4762.9	4753.8	4756.8
35°	4316.6	4262.0	4228.6	4198.2	4174.0	4155.8	4146.6	4137.5	4134.5	4122.4	4110.2
37.5°	3600.2	3560.8	3536.5	3518.3	3497.0	3478.8	3481.8	3484.9	3493.9	3487.9	3490.9
40°	2841.3	2832.2	2841.3	2820.1	2813.9	2820.1	2835.2	2856.6	2868.7	2880.8	2902.0
42.5°	2161.3	2176.5	2197.8	2197.8	2206.8	2219.1	2237.2	2270.7	2288.8	2310.0	2334.4
45°	1627.1	1645.3	1672.7	1681.7	1687.8	1702.9	1724.3	1751.5	1763.6	1781.9	1803.1
47.5°	1253.7	1265.8	1281.0	1296.2	1311.3	1317.4	1338.7	1338.7	1353.9	1366.1	1372.1
50°	977.5	989.6	1001.7	1010.8	1016.9	1026.1	1032.1	1041.2	1044.2	1050.3	1053.3
52.5°	764.9	780.2	780.2	786.2	795.3	804.4	801.4	804.4	807.4	807.4	816.5
55°	598.0	598.0	607.1	607.1	613.2	610.1	613.2	613.2	613.2	613.2	616.2
57.5°	446.2	449.3	458.4	452.3	449.3	455.3	449.3	455.3	452.3	458.4	449.3
60°	343.0	343.0	346.1	346.1	349.1	349.1	349.1	346.1	346.1	343.0	343.0
62.5°	258.0	261.0	264.1	261.0	261.0	261.0	258.0	258.0	255.0	251.9	251.9
65°	173.1	170.1	176.1	170.1	173.1	173.1	170.1	173.1	163.9	166.9	163.9
67.5°	124.4	121.4	118.5	121.4	118.5	115.3	115.3	118.5	121.4	112.3	112.3
70°	82.0	85.0	82.0	85.0	88.1	88.1	85.0	82.0	85.0	79.0	82.0
72.5°	51.6	51.6	51.6	51.6	51.6	54.6	54.6	54.6	48.6	48.6	45.5
75°	24.2	33.4	27.4	24.2	33.4	33.4	30.4	30.4	27.4	27.4	27.4
77.5°	24.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	15.1	18.2	15.1
80°	12.1	12.1	12.1	9.1	12.1	12.1	15.1	12.1	12.1	9.1	15.1
82.5°	6.1	6.1	6.1	0.0	3.0	6.1	6.1	3.0	6.1	6.1	3.0
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: P248854

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9
2.5°	6286.7	6283.7	6286.7	6289.7	6286.7	6283.7	6286.7	6289.7	6277.6	6274.6	6280.6
5°	6420.3	6420.3	6426.3	6429.4	6426.3	6420.3	6420.3	6408.2	6399.1	6389.9	6386.9
7.5°	6535.6	6541.8	6547.8	6550.8	6547.8	6541.8	6535.6	6517.4	6499.2	6484.0	6471.9
10°	6605.5	6614.6	6626.7	6632.7	6626.7	6614.6	6605.5	6584.2	6559.9	6535.6	6517.4
12.5°	6635.8	6645.0	6660.1	6657.1	6660.1	6645.0	6635.8	6605.5	6578.1	6544.8	6517.4
15°	6614.6	6626.7	6641.8	6648.0	6641.8	6626.7	6614.6	6584.2	6559.9	6523.5	6496.2
17.5°	6547.8	6566.0	6575.1	6584.2	6575.1	6566.0	6547.8	6523.5	6490.2	6459.8	6432.4
20°	6456.7	6468.9	6481.0	6484.0	6481.0	6468.9	6456.7	6429.4	6377.8	6371.7	6350.5
22.5°	6326.2	6335.3	6362.6	6353.5	6362.6	6335.3	6326.2	6301.9	6283.7	6250.3	6229.0
25°	6137.9	6147.0	6150.2	6153.2	6150.2	6147.0	6137.9	6116.7	6098.6	6074.2	6062.1
27.5°	5813.2	5813.2	5819.2	5822.3	5819.2	5813.2	5813.2	5797.9	5785.8	5773.7	5761.6
30°	5321.4	5321.4	5321.4	5336.6	5321.4	5321.4	5321.4	5318.4	5318.4	5321.4	5321.4
32.5°	4753.8	4747.6	4741.6	4747.6	4741.6	4747.6	4753.8	4756.8	4753.8	4762.9	4778.0
35°	4110.2	4107.2	4116.3	4104.2	4116.3	4107.2	4110.2	4110.2	4122.4	4134.5	4137.5
37.5°	3493.9	3487.9	3500.0	3487.9	3500.0	3487.9	3493.9	3490.9	3487.9	3493.9	3484.9
40°	2908.2	2914.2	2914.2	2938.5	2914.2	2914.2	2908.2	2902.0	2880.8	2868.7	2856.6
42.5°	2346.5	2364.8	2358.6	2376.9	2358.6	2364.8	2346.5	2334.4	2310.0	2288.8	2270.7
45°	1815.2	1827.5	1827.5	1833.5	1827.5	1827.5	1815.2	1803.1	1781.9	1763.6	1751.5
47.5°	1393.3	1393.3	1393.3	1396.4	1393.3	1393.3	1393.3	1372.1	1366.1	1353.9	1338.7
50°	1059.4	1062.4	1065.6	1068.6	1065.6	1062.4	1059.4	1053.3	1050.3	1044.2	1041.2
52.5°	813.5	816.5	810.5	816.5	810.5	816.5	813.5	816.5	807.4	807.4	804.4
55°	616.2	613.2	616.2	619.2	616.2	613.2	616.2	616.2	613.2	613.2	613.2
57.5°	452.3	446.2	446.2	446.2	446.2	446.2	452.3	449.3	458.4	452.3	455.3
60°	337.0	340.0	340.0	343.0	340.0	340.0	337.0	343.0	343.0	346.1	346.1
62.5°	248.9	258.0	251.9	258.0	251.9	258.0	248.9	251.9	251.9	255.0	258.0
65°	160.9	160.9	160.9	163.9	160.9	160.9	160.9	163.9	166.9	163.9	173.1
67.5°	109.3	112.3	118.5	115.3	118.5	112.3	109.3	112.3	112.3	121.4	118.5
70°	88.1	79.0	79.0	88.1	79.0	79.0	88.1	82.0	79.0	85.0	82.0
72.5°	51.6	45.5	51.6	51.6	51.6	45.5	51.6	45.5	48.6	48.6	54.6
75°	27.4	24.2	21.2	30.4	21.2	24.2	27.4	27.4	27.4	27.4	30.4
77.5°	18.2	15.1	21.2	21.2	21.2	15.1	18.2	15.1	18.2	15.1	18.2
80°	9.1	12.1	9.1	15.1	9.1	12.1	9.1	15.1	9.1	12.1	12.1
82.5°	3.0	6.1	6.1	6.1	6.1	6.1	3.0	3.0	6.1	6.1	3.0
85°	0.0	6.1	3.0	3.0	3.0	6.1	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	0.0	0.0	3.0	0.0	0.0	3.0	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: P248854

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9
2.5°	6280.6	6271.5	6274.6	6256.4	6256.4	6250.3	6253.4	6238.1	6232.1	6226.0	6235.1
5°	6371.7	6356.6	6344.3	6317.1	6301.9	6283.7	6274.6	6250.3	6229.0	6210.8	6207.8
7.5°	6444.5	6411.2	6389.9	6353.5	6326.2	6305.0	6274.6	6241.1	6213.9	6189.5	6171.4
10°	6474.9	6441.6	6408.2	6362.6	6332.2	6292.7	6262.4	6219.9	6183.5	6150.2	6128.8
12.5°	6477.9	6435.4	6405.1	6353.5	6314.0	6271.5	6238.1	6189.5	6147.0	6113.7	6080.3
15°	6450.7	6411.2	6374.7	6320.1	6280.6	6241.1	6201.8	6150.2	6110.7	6071.2	6047.0
17.5°	6389.9	6353.5	6311.0	6259.4	6223.0	6186.5	6144.1	6101.6	6056.0	6013.5	5983.1
20°	6311.0	6271.5	6235.1	6183.5	6153.2	6113.7	6074.2	6028.7	5992.2	5949.8	5916.4
22.5°	6192.7	6156.2	6122.8	6092.4	6043.8	6013.5	5986.2	5934.6	5898.2	5858.7	5822.3
25°	6022.6	5986.2	5958.9	5922.4	5901.2	5867.8	5840.4	5794.9	5761.6	5725.1	5694.7
27.5°	5743.3	5722.1	5706.9	5685.6	5667.5	5652.3	5637.1	5600.7	5576.4	5543.1	5512.7
30°	5324.4	5321.4	5312.3	5303.2	5315.3	5315.3	5315.3	5309.3	5288.0	5263.7	5242.4
32.5°	4787.1	4793.2	4805.4	4814.5	4838.7	4866.1	4890.3	4902.4	4902.4	4887.3	4878.2
35°	4146.6	4155.8	4174.0	4198.2	4228.6	4262.0	4316.6	4328.8	4337.8	4337.8	4325.7
37.5°	3481.8	3478.8	3497.0	3518.3	3536.5	3560.8	3600.2	3609.4	3624.5	3618.5	3606.2
40°	2835.2	2820.1	2813.9	2820.1	2841.3	2832.2	2841.3	2835.2	2835.2	2813.9	2813.9
42.5°	2237.2	2219.1	2206.8	2197.8	2197.8	2176.5	2161.3	2146.2	2137.1	2121.9	2118.9
45°	1724.3	1702.9	1687.8	1681.7	1672.7	1645.3	1627.1	1608.8	1587.6	1581.6	1584.6
47.5°	1338.7	1317.4	1311.3	1296.2	1281.0	1265.8	1253.7	1232.5	1229.4	1217.2	1229.4
50°	1032.1	1026.1	1016.9	1010.8	1001.7	989.6	977.5	965.3	959.2	959.2	962.2
52.5°	801.4	804.4	795.3	786.2	780.2	780.2	764.9	761.9	761.9	749.8	761.9
55°	613.2	610.1	613.2	607.1	607.1	598.0	598.0	588.9	588.9	579.8	585.9
57.5°	449.3	455.3	449.3	452.3	458.4	449.3	446.2	437.1	443.2	437.1	440.2
60°	349.1	349.1	349.1	346.1	346.1	343.0	343.0	340.0	340.0	333.9	340.0
62.5°	258.0	261.0	261.0	261.0	264.1	261.0	258.0	261.0	258.0	258.0	261.0
65°	170.1	173.1	173.1	170.1	176.1	170.1	173.1	176.1	179.0	176.1	179.0
67.5°	115.3	115.3	118.5	121.4	118.5	121.4	124.4	121.4	124.4	130.6	124.4
70°	85.0	88.1	88.1	85.0	82.0	85.0	82.0	91.1	91.1	91.1	97.1
72.5°	54.6	54.6	51.6	51.6	51.6	51.6	51.6	60.7	54.6	51.6	57.7
75°	30.4	33.4	33.4	24.2	27.4	33.4	24.2	27.4	36.5	30.4	36.5
77.5°	18.2	18.2	18.2	18.2	18.2	18.2	24.2	21.2	21.2	21.2	24.2
80°	15.1	12.1	12.1	9.1	12.1	12.1	12.1	18.2	15.1	15.1	18.2
82.5°	6.1	6.1	3.0	0.0	6.1	6.1	6.1	6.1	6.1	6.1	12.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	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: P248854

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9
2.5°	6210.8	6210.8	6207.8	6201.8	6189.5	6189.5	6186.5	6177.4	6171.4	6168.3	6168.3
5°	6180.4	6168.3	6156.2	6122.8	6122.8	6116.7	6098.6	6086.3	6080.3	6065.1	6059.1
7.5°	6153.2	6116.7	6095.4	6074.2	6047.0	6034.7	6013.5	6004.4	5983.1	5968.0	5958.9
10°	6086.3	6062.1	6034.7	6001.4	5980.1	5955.9	5931.5	5913.4	5886.0	5870.8	5858.7
12.5°	6040.8	6004.4	5980.1	5943.6	5907.3	5886.0	5852.7	5831.4	5804.1	5773.7	5755.5
15°	5998.4	5958.9	5925.5	5886.0	5846.5	5822.3	5782.8	5758.6	5719.1	5688.7	5667.5
17.5°	5934.6	5901.2	5864.8	5816.2	5779.8	5749.5	5706.9	5676.6	5640.1	5600.7	5579.4
20°	5867.8	5828.3	5791.9	5743.3	5706.9	5670.5	5628.0	5594.7	5552.0	5515.7	5491.4
22.5°	5779.8	5734.2	5703.9	5655.3	5612.8	5573.4	5533.9	5494.4	5455.0	5424.6	5397.2
25°	5652.3	5603.7	5570.3	5530.8	5491.4	5461.1	5412.5	5388.2	5348.8	5321.4	5294.0
27.5°	5470.1	5433.7	5403.4	5363.9	5330.5	5306.3	5269.8	5245.6	5212.1	5187.8	5166.6
30°	5203.1	5172.7	5145.3	5105.9	5081.6	5060.4	5026.9	5005.7	4981.4	4954.0	4948.1
32.5°	4844.8	4820.5	4793.2	4765.9	4747.6	4735.5	4708.2	4696.0	4671.8	4656.5	4641.4
35°	4304.4	4283.2	4268.1	4256.0	4249.8	4252.8	4246.8	4259.0	4265.0	4262.0	4265.0
37.5°	3597.2	3585.0	3591.1	3600.2	3630.6	3670.1	3706.4	3761.0	3797.5	3834.0	3867.4
40°	2807.9	2817.1	2841.3	2895.9	2974.9	3063.0	3144.9	3248.1	3351.3	3424.2	3490.9
42.5°	2118.9	2146.2	2206.8	2285.8	2404.2	2534.7	2662.3	2813.9	2938.5	3059.8	3144.9
45°	1593.7	1630.1	1709.0	1818.4	1948.8	2100.6	2261.6	2431.5	2580.3	2704.7	2798.8
47.5°	1241.6	1275.0	1353.9	1469.3	1630.1	1788.0	1954.9	2131.0	2285.8	2407.2	2489.2
50°	980.5	1022.9	1092.8	1214.2	1375.2	1542.1	1715.2	1888.1	2033.9	2137.1	2209.9
52.5°	771.1	810.5	877.3	1004.8	1168.8	1335.7	1496.5	1666.6	1794.0	1894.2	1942.8
55°	598.0	634.5	704.2	810.5	965.3	1129.3	1290.1	1435.9	1554.2	1627.1	1672.7
57.5°	455.3	482.7	531.3	637.5	777.2	928.9	1065.6	1211.2	1302.3	1353.9	1384.2
60°	346.1	367.3	418.9	500.9	628.4	758.9	874.3	983.6	1056.4	1098.9	1129.3
62.5°	261.0	285.4	321.7	391.6	488.7	595.0	692.1	774.1	834.8	862.1	883.4
65°	179.0	197.3	224.7	279.3	361.2	437.1	513.0	573.8	613.2	643.6	655.7
67.5°	133.6	145.7	160.9	203.4	261.0	321.7	373.3	415.8	458.4	470.6	491.8
70°	100.2	109.3	124.4	154.8	188.2	230.7	273.3	297.5	327.9	349.1	355.2
72.5°	63.7	66.7	82.0	100.2	127.4	154.8	182.2	203.4	221.7	233.8	239.8
75°	36.5	54.6	54.6	72.8	91.1	103.2	121.4	136.6	145.7	154.8	154.8
77.5°	24.2	33.4	36.5	45.5	54.6	69.8	85.0	94.1	103.2	106.2	106.2
80°	21.2	24.2	24.2	33.4	39.5	51.6	60.7	63.7	69.8	72.8	79.0
82.5°	9.1	12.1	15.1	24.2	27.4	27.4	36.5	39.5	45.5	48.6	48.6
85°	3.0	6.1	6.1	9.1	15.1	18.2	21.2	24.2	27.4	27.4	30.4
87.5°	3.0	3.0	0.0	3.0	6.1	6.1	12.1	12.1	12.1	18.2	18.2
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: P248854

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9	6216.9
2.5°	6162.3	6165.3	6153.2	6150.2	6144.1	6147.0	6153.2
5°	6050.0	6053.0	6040.8	6028.7	6028.7	6025.6	6028.7
7.5°	5943.6	5946.8	5928.5	5922.4	5910.3	5913.4	5913.4
10°	5837.4	5837.4	5810.2	5807.1	5797.9	5794.9	5794.9
12.5°	5734.2	5725.1	5703.9	5691.7	5697.9	5679.6	5679.6
15°	5643.1	5628.0	5600.7	5591.5	5576.4	5570.3	5570.3
17.5°	5549.0	5536.9	5512.7	5494.4	5476.2	5473.2	5476.2
20°	5458.0	5445.8	5415.5	5403.4	5388.2	5388.2	5382.1
22.5°	5366.9	5354.8	5327.5	5318.4	5297.2	5297.2	5300.2
25°	5272.8	5263.7	5233.3	5227.3	5224.3	5212.1	5218.2
27.5°	5145.3	5139.2	5115.0	5105.9	5093.7	5090.7	5096.7
30°	4911.6	4902.4	4884.3	4875.2	4854.0	4857.0	4863.0
32.5°	4620.2	4608.1	4583.7	4574.6	4556.5	4550.3	4553.3
35°	4256.0	4246.8	4225.6	4225.6	4207.4	4201.2	4207.4
37.5°	3885.6	3894.6	3885.6	3894.6	3885.6	3882.5	3885.6
40°	3536.5	3569.9	3575.9	3609.4	3597.2	3615.4	3612.4
42.5°	3202.5	3257.1	3278.5	3305.7	3299.7	3311.9	3321.0
45°	2865.5	2911.2	2932.4	2950.6	2953.6	2959.8	2962.8
47.5°	2546.8	2583.3	2586.3	2607.5	2604.5	2604.5	2613.7
50°	2249.4	2273.7	2279.7	2294.9	2282.8	2276.7	2279.7
52.5°	1973.2	1997.4	1991.3	1997.4	1982.3	1976.2	1979.2
55°	1690.8	1702.9	1702.9	1702.9	1684.8	1684.8	1684.8
57.5°	1402.4	1405.5	1399.4	1402.4	1399.4	1381.2	1378.2
60°	1138.4	1138.4	1135.3	1138.4	1129.3	1120.2	1120.2
62.5°	889.4	895.5	907.6	895.5	889.4	895.5	886.4
65°	664.8	677.0	673.8	680.0	677.0	677.0	670.8
67.5°	500.9	503.9	506.9	510.0	510.0	510.0	510.0
70°	367.3	376.5	373.3	373.3	373.3	373.3	391.6
72.5°	245.9	258.0	255.0	261.0	261.0	267.1	261.0
75°	166.9	179.0	173.1	182.2	179.0	173.1	188.2
77.5°	112.3	118.5	121.4	124.4	121.4	118.5	121.4
80°	79.0	85.0	82.0	85.0	85.0	85.0	88.1
82.5°	48.6	57.7	54.6	57.7	54.6	57.7	57.7
85°	33.4	36.5	30.4	36.5	33.4	33.4	39.5
87.5°	21.2	18.2	18.2	21.2	18.2	21.2	18.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)