

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: P249779

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B1009730 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8470.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

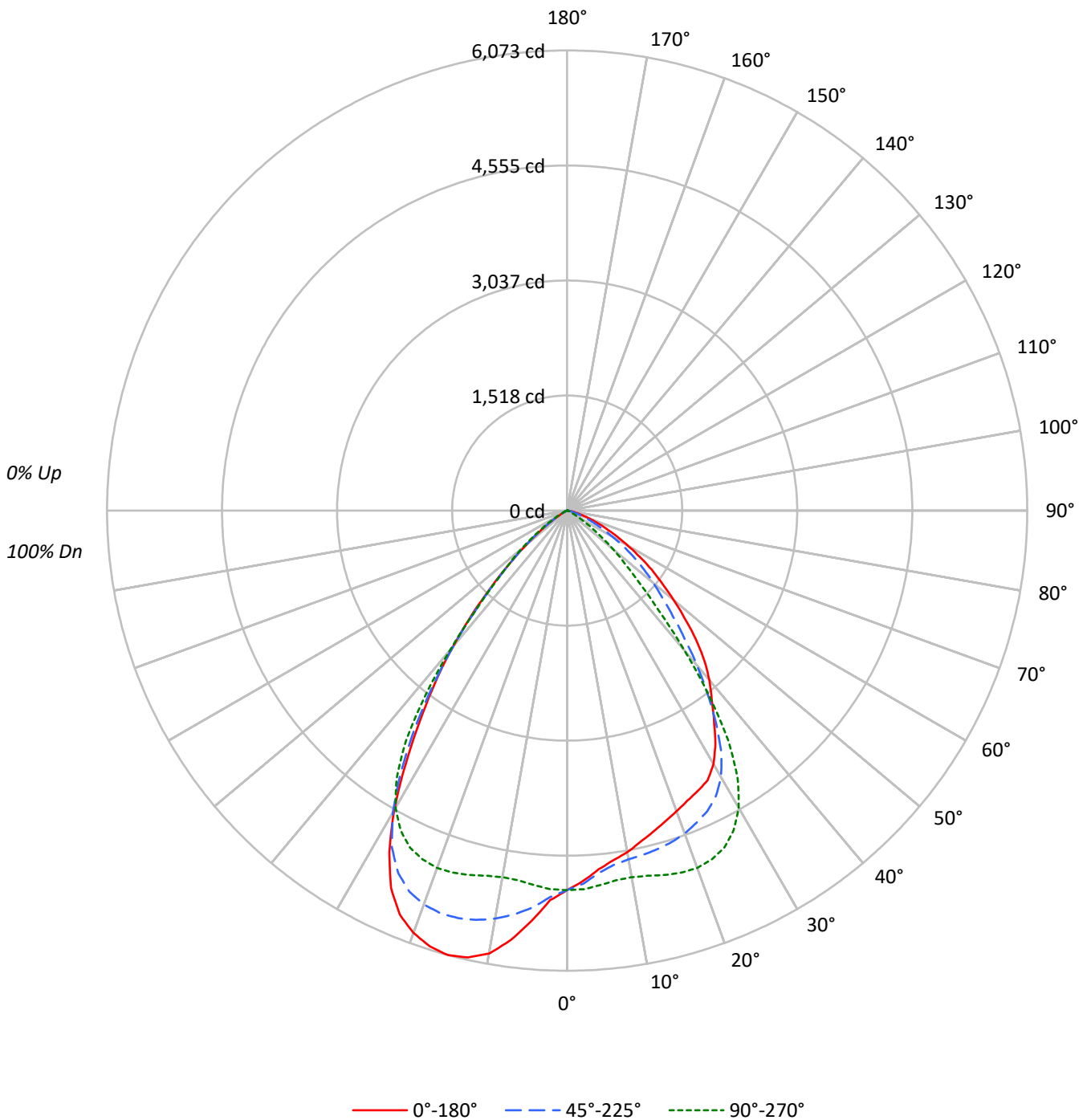
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	481.5	5.7
10°-20°	1441.0	17.0
20°-30°	2206.7	26.1
30°-40°	2163.3	25.5
40°-50°	1302.8	15.4
50°-60°	599.6	7.1
60°-70°	210.6	2.5
70°-80°	55.1	0.7
80°-90°	9.4	0.1
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°	4129.2	48.8
0°-40°	6292.5	74.3
0°-60°	8194.9	96.8
0°-90°	8470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8470.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5008	5008	5008	5008	5008	
5°	4753	4798	4962	5259	5439	449
15°	4388	4624	4978	5568	6073	1240
25°	4082	4376	4908	5278	5498	1880
35°	3377	3424	3707	3494	3382	2115
45°	2399	1975	1339	1348	1383	1839
55°	1362	1079	384	302	290	1215
65°	578	400	61	30	33	589
75°	150	87	5	0	0	182
85°	23	12	2	0	0	32
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°	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3
2.5°	4891.3	4896.0	4896.0	4896.0	4905.4	4907.8	4905.4	4907.8	4912.4	4928.8	4935.8
5°	4753.2	4746.2	4750.9	4748.5	4760.3	4767.3	4762.6	4769.6	4786.0	4797.8	4809.4
7.5°	4655.0	4655.0	4655.0	4659.6	4666.6	4680.7	4678.4	4683.0	4699.4	4715.8	4732.1
10°	4577.7	4575.4	4575.4	4587.1	4596.4	4612.8	4617.5	4631.6	4652.6	4673.7	4692.4
12.5°	4477.1	4479.5	4491.1	4502.9	4523.9	4549.6	4563.7	4582.5	4615.2	4650.3	4671.4
15°	4388.2	4390.5	4399.9	4423.2	4449.0	4479.5	4509.8	4540.3	4580.0	4624.5	4662.0
17.5°	4301.6	4303.9	4310.9	4336.7	4369.5	4409.2	4444.3	4484.1	4535.6	4587.1	4633.9
20°	4222.0	4219.7	4231.3	4254.7	4296.9	4334.3	4369.5	4416.3	4472.4	4535.6	4589.4
22.5°	4144.7	4144.7	4156.5	4179.9	4217.4	4254.7	4292.2	4341.3	4397.5	4458.4	4521.6
25°	4081.5	4079.2	4095.6	4107.3	4135.4	4172.9	4212.6	4252.4	4308.6	4376.5	4437.3
27.5°	4013.7	4011.4	4013.7	4027.8	4053.5	4081.5	4112.0	4147.1	4193.9	4250.1	4308.6
30°	3863.9	3866.2	3866.2	3878.0	3892.0	3922.4	3938.8	3973.9	4016.0	4062.8	4114.4
32.5°	3641.6	3643.9	3643.9	3648.6	3660.3	3674.3	3688.4	3714.1	3746.9	3786.7	3833.5
35°	3377.2	3377.2	3374.8	3377.2	3384.2	3384.2	3395.8	3384.2	3400.6	3424.0	3459.0
37.5°	3133.7	3129.0	3124.4	3119.7	3112.6	3101.0	3084.6	3056.5	3049.4	3040.1	3042.4
40°	2918.4	2916.1	2902.1	2890.3	2866.9	2838.9	2799.1	2750.0	2710.2	2663.4	2623.6
42.5°	2679.7	2677.3	2665.7	2644.6	2618.8	2576.7	2513.6	2448.1	2368.5	2298.3	2225.7
45°	2398.8	2405.9	2389.5	2366.1	2335.6	2295.8	2225.7	2146.1	2066.5	1975.3	1883.9
47.5°	2106.3	2104.0	2092.3	2078.2	2052.5	2012.7	1965.9	1879.3	1795.0	1710.8	1617.2
50°	1834.8	1825.5	1820.7	1806.8	1790.4	1757.6	1708.4	1638.2	1563.4	1483.8	1397.2
52.5°	1577.4	1577.4	1565.7	1556.3	1542.3	1516.5	1474.4	1418.3	1355.1	1280.1	1188.9
55°	1362.1	1357.4	1345.7	1334.0	1319.9	1303.5	1266.2	1219.4	1151.4	1078.9	999.3
57.5°	1132.8	1130.3	1125.7	1111.7	1104.6	1088.2	1046.2	999.3	940.9	877.7	812.1
60°	926.8	917.5	908.0	898.7	887.0	870.6	842.5	802.7	753.6	697.4	631.9
62.5°	741.9	755.9	727.9	727.9	704.5	690.4	664.7	641.3	589.7	538.3	482.1
65°	578.1	578.1	566.3	557.0	542.9	526.5	500.8	477.4	439.9	400.2	360.4
67.5°	442.4	439.9	428.3	418.9	407.2	397.8	379.2	351.0	323.0	290.2	257.4
70°	325.3	323.0	320.6	304.2	294.9	283.2	269.1	250.5	229.4	206.0	175.5
72.5°	234.0	234.0	227.1	220.0	210.7	201.2	187.3	175.5	156.8	140.5	119.4
75°	149.8	147.5	147.5	135.7	135.7	121.7	112.3	105.3	95.9	86.6	67.9
77.5°	107.7	105.3	103.0	98.3	93.6	88.9	81.9	72.5	65.5	56.2	49.1
80°	72.5	67.9	65.5	65.5	58.5	56.2	58.5	44.5	42.1	35.1	30.4
82.5°	44.5	44.5	42.1	42.1	39.8	37.5	30.4	30.4	28.1	25.7	21.1
85°	23.4	30.4	21.1	23.4	21.1	23.4	21.1	16.4	14.1	11.7	11.7
87.5°	14.1	9.3	9.3	14.1	11.7	9.3	9.3	9.3	7.0	4.7	4.7
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°	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3
2.5°	4931.2	4947.5	4945.1	4966.2	4973.3	4989.6	4989.6	5001.3	5008.3	5024.7	5038.8
5°	4814.1	4839.8	4846.9	4872.6	4893.7	4919.4	4935.8	4961.5	4984.9	5020.1	5052.8
7.5°	4741.6	4762.6	4776.7	4807.1	4830.5	4858.5	4886.7	4921.7	4954.5	4996.7	5043.5
10°	4706.4	4734.6	4755.6	4786.0	4814.1	4844.6	4872.6	4912.4	4949.9	5003.7	5055.1
12.5°	4697.1	4729.8	4755.6	4797.8	4825.8	4858.5	4891.3	4935.8	4975.6	5031.7	5090.3
15°	4697.1	4741.6	4776.7	4823.5	4856.2	4898.3	4933.5	4977.9	5022.4	5080.9	5137.0
17.5°	4687.7	4741.6	4786.0	4839.8	4881.9	4924.1	4968.5	5010.7	5057.5	5113.7	5176.8
20°	4650.3	4718.2	4771.9	4835.1	4879.6	4926.4	4971.0	5017.7	5066.9	5125.4	5179.2
22.5°	4584.8	4664.3	4725.2	4793.0	4844.6	4891.3	4935.8	4982.6	5036.5	5092.6	5148.8
25°	4498.2	4573.0	4638.6	4708.7	4760.3	4811.7	4853.9	4907.8	4956.9	5010.7	5055.1
27.5°	4367.1	4446.6	4509.8	4582.5	4629.2	4678.4	4713.5	4758.0	4804.8	4849.2	4884.4
30°	4170.5	4243.1	4308.6	4374.1	4420.9	4456.1	4493.4	4528.6	4559.0	4589.4	4619.8
32.5°	3882.6	3948.2	4011.4	4072.2	4109.7	4140.1	4168.1	4189.2	4205.6	4222.0	4224.3
35°	3487.2	3540.9	3580.7	3634.6	3669.7	3697.7	3697.7	3707.1	3704.8	3697.7	3690.7
37.5°	3044.8	3065.8	3082.2	3103.3	3105.6	3105.6	3091.6	3079.9	3061.2	3056.5	3042.4
40°	2583.8	2555.7	2534.6	2506.5	2490.1	2455.0	2424.6	2403.5	2373.1	2368.5	2363.8
42.5°	2146.1	2080.6	2022.1	1972.9	1916.8	1867.6	1823.2	1790.4	1767.0	1764.6	1767.0
45°	1790.4	1715.5	1628.9	1561.0	1497.8	1437.0	1378.5	1338.7	1317.6	1312.9	1317.6
47.5°	1521.3	1434.7	1350.4	1273.1	1205.3	1137.4	1078.9	1025.1	999.3	992.3	990.0
50°	1308.3	1219.4	1130.3	1050.8	975.9	908.0	835.5	784.0	751.3	739.5	730.2
52.5°	1100.0	1020.4	929.1	847.2	772.3	692.7	617.9	559.3	526.5	512.6	503.1
55°	917.5	837.9	753.6	674.0	594.5	514.9	439.9	383.8	348.7	332.3	320.6
57.5°	732.5	657.6	585.1	505.5	439.9	362.8	287.8	238.7	208.3	189.6	180.2
60°	566.3	507.9	444.7	379.2	316.0	252.8	191.9	145.1	121.7	107.7	95.9
62.5°	428.3	379.2	337.0	280.8	231.7	177.8	131.1	93.6	72.5	60.9	56.2
65°	308.9	271.5	234.0	198.9	163.9	124.1	88.9	60.9	42.1	35.1	32.8
67.5°	220.0	189.6	161.5	138.0	112.3	88.9	63.2	42.1	32.8	28.1	25.7
70°	154.4	131.1	112.3	91.3	74.8	58.5	49.1	30.4	18.7	21.1	16.4
72.5°	103.0	86.6	77.3	63.2	51.4	42.1	30.4	21.1	21.1	16.4	14.1
75°	56.2	51.4	39.8	30.4	25.7	23.4	9.3	4.7	2.3	7.0	2.3
77.5°	39.8	35.1	30.4	25.7	21.1	16.4	9.3	9.3	7.0	9.3	4.7
80°	25.7	21.1	18.7	18.7	11.7	7.0	4.7	4.7	7.0	2.3	2.3
82.5°	16.4	14.1	11.7	11.7	11.7	7.0	7.0	7.0	7.0	4.7	4.7
85°	9.3	7.0	4.7	4.7	2.3	4.7	0.0	2.3	2.3	0.0	0.0
87.5°	4.7	2.3	2.3	2.3	2.3	0.0	0.0	2.3	0.0	2.3	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3	5008.3
2.5°	5048.1	5057.5	5069.2	5078.6	5099.7	5104.3	5113.7	5123.1	5130.1	5137.0	5139.4
5°	5080.9	5116.0	5148.8	5183.8	5228.3	5258.8	5293.9	5324.3	5354.7	5380.5	5399.1
7.5°	5090.3	5144.1	5193.3	5254.1	5319.6	5375.8	5434.3	5492.8	5553.7	5600.5	5640.3
10°	5109.0	5174.5	5237.7	5310.2	5394.5	5469.4	5541.9	5619.2	5696.4	5761.9	5820.5
12.5°	5141.7	5214.3	5282.2	5361.8	5448.4	5532.6	5612.1	5698.7	5780.7	5853.2	5918.8
15°	5195.6	5263.4	5329.0	5403.9	5490.5	5567.7	5647.3	5731.5	5813.5	5888.3	5949.2
17.5°	5230.7	5293.9	5359.4	5427.3	5499.8	5570.0	5644.9	5719.8	5794.7	5862.6	5918.8
20°	5230.7	5291.5	5340.7	5401.6	5469.4	5530.2	5591.1	5656.6	5722.1	5778.3	5832.1
22.5°	5188.6	5247.0	5284.5	5331.3	5389.8	5441.3	5474.1	5546.6	5595.8	5644.9	5684.7
25°	5090.3	5132.4	5162.8	5195.6	5242.4	5277.5	5305.6	5347.7	5396.8	5415.6	5443.6
27.5°	4912.4	4942.8	4959.2	4966.2	4989.6	5008.3	5013.0	5031.7	5052.8	5057.5	5069.2
30°	4631.6	4633.9	4626.9	4624.5	4612.8	4598.8	4596.4	4594.1	4584.8	4575.4	4577.7
32.5°	4207.9	4196.3	4168.1	4137.8	4107.3	4074.6	4055.8	4032.4	4018.3	4004.4	3988.0
35°	3660.3	3632.2	3592.5	3555.0	3519.9	3494.1	3452.0	3437.9	3424.0	3405.2	3400.6
37.5°	3016.7	3000.3	2962.8	2934.8	2916.1	2904.4	2883.3	2869.3	2869.3	2862.3	2857.6
40°	2352.0	2347.4	2333.3	2340.4	2331.0	2335.6	2333.3	2328.6	2340.4	2340.4	2345.1
42.5°	1764.6	1767.0	1774.0	1778.6	1792.7	1795.0	1806.8	1806.8	1813.8	1820.7	1825.5
45°	1312.9	1322.3	1322.3	1331.7	1345.7	1348.1	1352.7	1355.1	1359.7	1371.5	1376.1
47.5°	985.3	987.6	987.6	990.0	994.6	999.3	997.0	999.3	1006.4	1001.6	1006.4
50°	727.9	730.2	723.2	716.1	723.2	723.2	720.8	713.8	720.8	711.5	716.1
52.5°	496.2	493.8	486.8	489.2	484.4	482.1	482.1	477.4	477.4	477.4	468.1
55°	313.7	313.7	308.9	308.9	306.6	301.9	299.6	297.2	294.9	292.6	292.6
57.5°	175.5	177.8	170.9	168.5	170.9	168.5	163.9	163.9	163.9	156.8	161.5
60°	95.9	93.6	91.3	88.9	86.6	88.9	88.9	84.3	84.3	84.3	86.6
62.5°	51.4	51.4	49.1	49.1	46.8	46.8	51.4	44.5	46.8	44.5	46.8
65°	28.1	35.1	25.7	25.7	32.8	30.4	28.1	28.1	30.4	25.7	28.1
67.5°	30.4	21.1	18.7	21.1	18.7	18.7	18.7	23.4	21.1	16.4	21.1
70°	14.1	16.4	16.4	11.7	18.7	9.3	16.4	9.3	14.1	11.7	14.1
72.5°	14.1	14.1	14.1	9.3	14.1	9.3	11.7	11.7	9.3	9.3	14.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.7	4.7	2.3	2.3	2.3	2.3	4.7	4.7	4.7	0.0	2.3
80°	4.7	4.7	0.0	2.3	0.0	0.0	2.3	0.0	2.3	0.0	4.7
82.5°	2.3	4.7	2.3	2.3	4.7	4.7	4.7	2.3	2.3	2.3	2.3
85°	0.0	2.3	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	2.3
87.5°	0.0	2.3	0.0	0.0	0.0	0.0	2.3	2.3	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: P249779

CATALOG NUMBER: LSR8B100D010 EC8B1009730 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	5008.3	5008.3	5008.3	5008.3
2.5°	5141.7	5144.1	5148.8	5146.5
5°	5413.2	5432.0	5441.3	5439.0
7.5°	5668.3	5701.1	5719.8	5719.8
10°	5864.9	5902.4	5930.4	5935.1
12.5°	5970.2	6012.4	6049.9	6040.4
15°	6000.6	6042.8	6080.2	6073.2
17.5°	5965.6	6007.7	6035.8	6031.1
20°	5869.6	5904.7	5932.8	5930.4
22.5°	5719.8	5750.3	5773.7	5771.3
25°	5467.1	5488.2	5506.8	5497.5
27.5°	5078.6	5085.6	5097.2	5083.3
30°	4561.4	4566.0	4570.7	4568.4
32.5°	3981.0	3978.6	3973.9	3969.2
35°	3393.5	3393.5	3395.8	3381.8
37.5°	2859.9	2857.6	2864.6	2857.6
40°	2349.7	2347.4	2356.7	2345.1
42.5°	1832.5	1839.5	1841.8	1841.8
45°	1378.5	1380.8	1383.1	1383.1
47.5°	1006.4	1008.7	1020.4	1006.4
50°	711.5	713.8	716.1	711.5
52.5°	470.4	472.8	470.4	463.4
55°	287.8	290.2	290.2	290.2
57.5°	154.4	156.8	156.8	154.4
60°	84.3	81.9	84.3	79.6
62.5°	44.5	49.1	46.8	42.1
65°	28.1	28.1	28.1	32.8
67.5°	23.4	18.7	21.1	16.4
70°	14.1	16.4	16.4	11.7
72.5°	11.7	11.7	11.7	14.1
75°	0.0	0.0	0.0	0.0
77.5°	4.7	4.7	4.7	2.3
80°	2.3	0.0	2.3	0.0
82.5°	2.3	2.3	4.7	2.3
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)