

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: P249619

Luminaire Tested: **LSR8B150D010 EC8B1509730 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B1509730 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11993.0 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

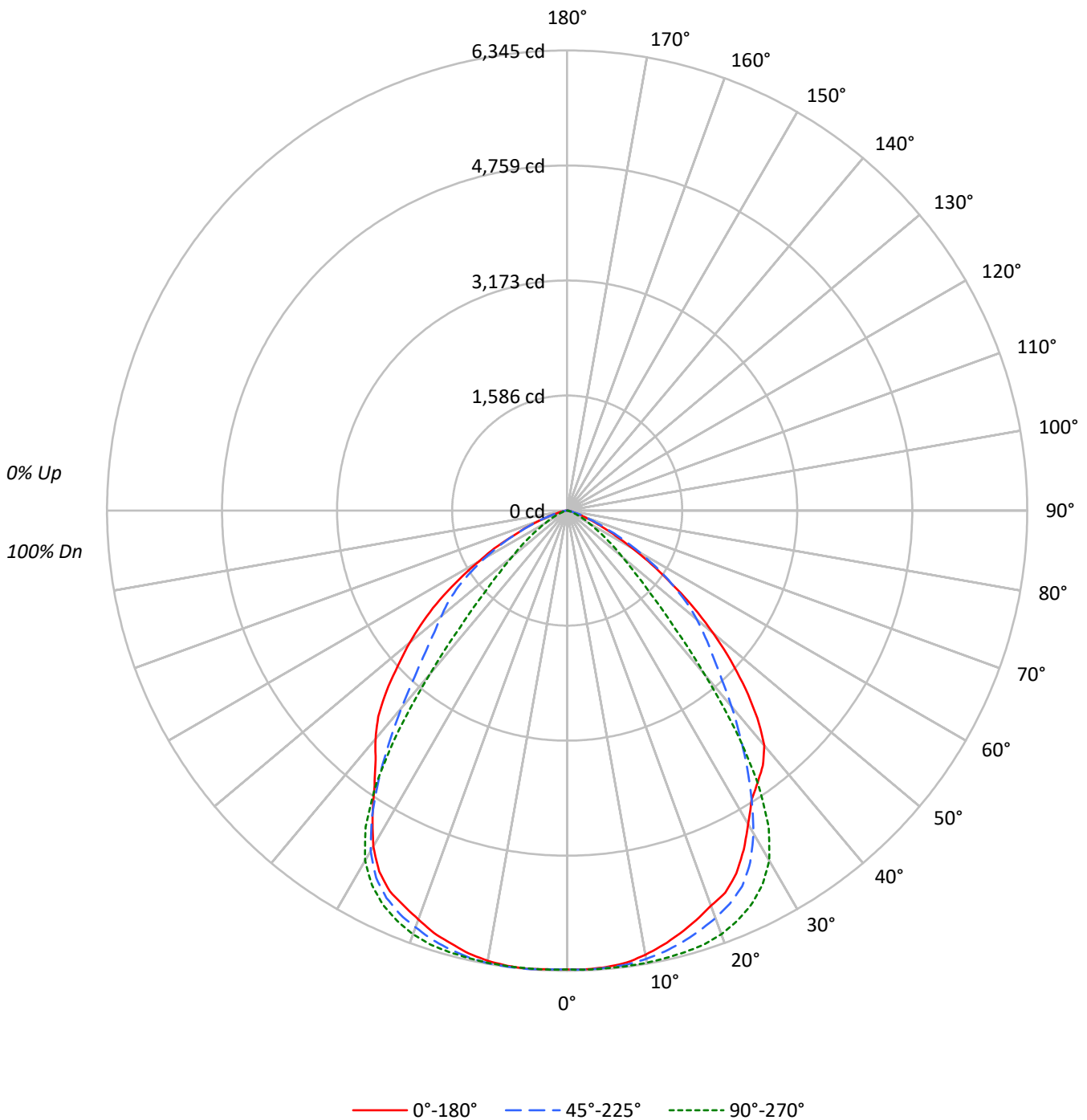
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

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°	603.9	5.0
10°-20°	1753.8	14.6
20°-30°	2661.9	22.2
30°-40°	2795.8	23.3
40°-50°	2096.1	17.5
50°-60°	1344.9	11.2
60°-70°	575.3	4.8
70°-80°	135.9	1.1
80°-90°	25.3	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°	5019.6	41.9
0°-40°	7815.4	65.2
0°-60°	11256.5	93.9
0°-90°	11993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11993.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6328	6328	6328	6328	6328	
5°	6318	6328	6335	6345	6341	600
15°	6032	6158	6301	6260	6182	1701
25°	5519	5713	6002	5893	5791	2521
35°	4579	4324	4582	4528	4630	2874
45°	3478	2843	1634	2761	3526	2664
55°	1759	1759	608	1834	2143	1596
65°	530	625	194	805	818	566
75°	82	95	27	163	160	119
85°	27	17	14	27	37	29
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°	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7
2.5°	6331.1	6338.0	6334.6	6334.6	6331.1	6334.6	6334.6	6341.4	6341.4	6334.6	6331.1
5°	6317.5	6324.3	6324.3	6317.5	6317.5	6334.6	6324.3	6331.1	6331.1	6327.7	6327.7
7.5°	6287.0	6287.0	6300.6	6290.4	6290.4	6300.6	6297.2	6304.0	6310.8	6314.2	6314.2
10°	6219.0	6225.9	6229.3	6229.3	6232.7	6242.8	6249.6	6263.2	6270.0	6276.8	6280.2
12.5°	6134.2	6144.3	6147.7	6144.3	6154.5	6168.1	6185.1	6202.1	6212.3	6225.9	6236.1
15°	6032.2	6032.2	6039.0	6049.2	6056.1	6076.4	6093.4	6113.7	6140.9	6158.0	6174.9
17.5°	5920.2	5927.0	5937.1	5937.1	5950.8	5984.7	5994.9	6025.5	6056.1	6073.0	6107.0
20°	5797.9	5804.7	5814.9	5821.7	5838.7	5865.8	5886.2	5913.4	5947.4	5977.9	6011.9
22.5°	5702.8	5689.2	5696.0	5702.8	5719.8	5743.6	5767.3	5801.3	5835.2	5865.8	5899.8
25°	5519.4	5522.8	5533.0	5539.7	5560.2	5580.5	5607.7	5648.4	5679.0	5713.0	5750.3
27.5°	5271.4	5274.8	5291.8	5291.8	5308.8	5342.7	5359.7	5393.7	5434.5	5468.4	5512.6
30°	4989.5	4996.3	4996.3	5009.9	5020.0	5037.1	5054.0	5088.0	5108.4	5139.0	5200.1
32.5°	4731.4	4738.1	4734.7	4731.4	4721.2	4717.8	4714.4	4721.2	4728.0	4738.1	4761.9
35°	4578.6	4561.5	4548.0	4524.2	4497.0	4463.1	4432.5	4391.7	4354.3	4323.8	4289.9
37.5°	4432.5	4429.1	4408.7	4374.7	4320.4	4259.3	4188.0	4099.6	4011.3	3916.2	3824.5
40°	4228.7	4218.5	4201.5	4154.0	4092.8	4018.1	3923.0	3814.3	3671.6	3525.6	3376.2
42.5°	3882.2	3885.6	3865.3	3827.9	3770.2	3698.8	3600.3	3481.5	3328.6	3155.4	2961.8
45°	3478.1	3478.1	3471.2	3440.7	3399.9	3342.2	3267.5	3169.0	3019.6	2842.9	2635.7
47.5°	3056.9	3060.3	3050.1	3043.3	3026.3	2989.0	2934.6	2859.9	2754.6	2584.7	2377.5
50°	2628.9	2628.9	2645.9	2642.5	2642.5	2628.9	2605.2	2561.0	2469.3	2333.4	2139.9
52.5°	2200.9	2207.8	2218.0	2231.5	2248.5	2275.7	2248.5	2228.1	2170.4	2065.1	1898.7
55°	1759.4	1766.2	1783.2	1806.9	1827.4	1854.5	1861.3	1861.3	1830.7	1759.4	1633.7
57.5°	1382.4	1372.2	1385.8	1406.2	1433.4	1460.5	1480.9	1504.7	1501.3	1453.7	1351.8
60°	1039.3	1042.8	1052.9	1073.3	1093.7	1117.5	1144.6	1165.0	1175.2	1151.5	1086.9
62.5°	757.4	757.4	771.0	791.4	801.6	835.6	852.5	862.7	872.9	869.5	828.8
65°	529.9	536.6	543.4	553.7	563.8	584.2	594.4	614.7	621.6	625.0	594.4
67.5°	373.7	363.4	370.2	377.0	387.2	400.8	421.2	421.2	431.3	431.3	411.0
70°	237.8	237.8	241.2	251.3	258.1	261.5	268.4	275.1	285.3	281.9	281.9
72.5°	159.6	156.2	159.6	163.1	166.5	176.6	176.6	180.0	186.8	190.2	176.6
75°	81.5	84.9	91.7	88.3	98.5	91.7	95.1	105.3	101.9	95.1	95.1
77.5°	67.9	67.9	67.9	64.6	71.3	71.3	67.9	74.7	71.3	71.3	67.9
80°	47.5	50.9	47.5	44.1	47.5	44.1	44.1	44.1	44.1	44.1	40.7
82.5°	37.4	30.6	34.0	30.6	34.0	34.0	30.6	27.2	27.2	30.6	27.2
85°	27.2	20.4	23.8	23.8	20.4	20.4	20.4	20.4	20.4	17.0	17.0
87.5°	17.0	10.2	10.2	10.2	13.5	13.5	13.5	10.2	13.5	13.5	6.8
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°	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7
2.5°	6338.0	6334.6	6341.4	6338.0	6338.0	6334.6	6338.0	6334.6	6341.4	6327.7	6331.1
5°	6338.0	6331.1	6334.6	6338.0	6341.4	6334.6	6334.6	6334.6	6341.4	6334.6	6338.0
7.5°	6324.3	6320.9	6331.1	6338.0	6334.6	6331.1	6338.0	6334.6	6341.4	6338.0	6344.7
10°	6297.2	6300.6	6307.4	6317.5	6320.9	6324.3	6331.1	6331.1	6341.4	6327.7	6334.6
12.5°	6256.4	6270.0	6287.0	6293.8	6307.4	6307.4	6314.2	6317.5	6324.3	6320.9	6331.1
15°	6205.5	6222.4	6242.8	6259.8	6276.8	6287.0	6297.2	6300.6	6310.8	6300.6	6304.0
17.5°	6144.3	6164.7	6195.3	6215.6	6242.8	6253.0	6266.6	6273.4	6283.6	6276.8	6280.2
20°	6059.4	6083.2	6117.1	6147.7	6164.7	6188.5	6205.5	6215.6	6222.4	6215.6	6219.0
22.5°	5940.5	5974.5	6018.7	6042.4	6076.4	6096.8	6100.2	6124.0	6140.9	6124.0	6130.8
25°	5801.3	5835.2	5869.2	5920.2	5950.8	5974.5	5998.3	6001.7	6018.7	6015.3	6011.9
27.5°	5570.3	5614.5	5672.2	5713.0	5753.7	5791.1	5818.3	5825.0	5842.1	5835.2	5838.7
30°	5254.4	5302.0	5356.4	5420.9	5478.6	5515.9	5549.9	5573.7	5590.7	5580.5	5577.1
32.5°	4806.1	4853.7	4911.4	4975.9	5043.9	5098.2	5139.0	5169.6	5189.9	5183.1	5166.1
35°	4293.3	4306.8	4344.2	4395.2	4452.8	4510.6	4548.0	4581.9	4605.7	4612.5	4612.5
37.5°	3766.8	3722.6	3695.5	3695.5	3729.4	3753.1	3787.1	3807.5	3844.9	3858.4	3868.7
40°	3257.2	3155.4	3060.3	2989.0	2941.4	2938.0	2938.0	2948.2	2982.2	3026.3	3067.1
42.5°	2802.1	2639.1	2493.1	2360.6	2265.5	2211.2	2187.4	2190.8	2218.0	2258.7	2326.6
45°	2438.7	2234.9	2051.5	1891.9	1762.8	1677.9	1637.1	1633.7	1654.1	1701.6	1776.4
47.5°	2156.8	1939.4	1732.2	1548.8	1409.6	1317.8	1270.3	1256.8	1270.3	1314.4	1402.8
50°	1922.4	1698.3	1484.3	1294.1	1144.6	1049.6	1005.4	988.4	1005.4	1042.8	1131.0
52.5°	1705.0	1474.1	1273.7	1090.3	930.6	849.1	801.6	791.4	801.6	845.7	917.1
55°	1453.7	1256.8	1059.7	876.3	737.1	655.6	618.2	608.0	618.2	659.0	733.7
57.5°	1205.8	1035.9	862.7	696.3	577.4	506.0	472.1	458.5	482.3	509.5	597.8
60°	974.8	839.0	692.9	546.8	448.4	383.8	356.6	353.2	360.0	394.0	455.1
62.5°	764.3	652.1	536.6	417.8	336.3	309.1	275.1	271.8	278.5	298.9	346.5
65°	550.3	478.9	390.6	305.7	241.2	203.8	190.2	193.6	200.4	214.0	258.1
67.5°	383.8	332.8	271.8	214.0	166.5	149.4	135.9	132.5	135.9	159.6	183.4
70°	258.1	227.5	183.4	163.1	115.5	91.7	95.1	84.9	98.5	98.5	118.8
72.5°	169.8	149.4	122.3	95.1	81.5	64.6	64.6	61.2	67.9	71.3	88.3
75°	88.3	67.9	67.9	47.5	34.0	17.0	30.6	27.2	23.8	27.2	34.0
77.5°	61.2	50.9	47.5	37.4	34.0	27.2	27.2	27.2	27.2	30.6	34.0
80°	37.4	37.4	27.2	23.8	20.4	17.0	20.4	20.4	20.4	20.4	23.8
82.5°	23.8	20.4	20.4	17.0	17.0	13.5	13.5	13.5	13.5	13.5	20.4
85°	20.4	13.5	13.5	10.2	13.5	23.8	10.2	13.5	13.5	13.5	10.2
87.5°	6.8	10.2	10.2	10.2	6.8	3.4	6.8	10.2	10.2	17.0	13.5
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°	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7	6327.7
2.5°	6338.0	6341.4	6341.4	6338.0	6338.0	6331.1	6344.7	6334.6	6338.0	6351.5	6341.4
5°	6344.7	6348.1	6348.1	6344.7	6344.7	6344.7	6348.1	6348.1	6344.7	6341.4	6348.1
7.5°	6358.3	6354.9	6354.9	6348.1	6348.1	6341.4	6348.1	6338.0	6344.7	6338.0	6348.1
10°	6341.4	6344.7	6341.4	6338.0	6338.0	6334.6	6334.6	6324.3	6327.7	6317.5	6324.3
12.5°	6331.1	6327.7	6327.7	6320.9	6314.2	6307.4	6304.0	6293.8	6293.8	6270.0	6280.2
15°	6304.0	6307.4	6297.2	6283.6	6276.8	6259.8	6253.0	6239.4	6225.9	6208.9	6212.3
17.5°	6280.2	6270.0	6256.4	6242.8	6215.6	6202.1	6188.5	6168.1	6161.3	6140.9	6134.2
20°	6208.9	6202.1	6185.1	6161.3	6144.3	6113.7	6100.2	6079.8	6062.8	6042.4	6032.2
22.5°	6117.1	6110.3	6090.0	6066.2	6039.0	6025.5	6011.9	5974.5	5957.5	5937.1	5933.7
25°	6001.7	5991.5	5971.1	5944.0	5930.3	5893.0	5879.4	5852.2	5845.5	5825.0	5821.7
27.5°	5825.0	5811.5	5787.7	5753.7	5729.9	5706.2	5692.6	5672.2	5665.5	5645.0	5641.7
30°	5560.2	5543.1	5495.6	5482.0	5441.2	5417.5	5417.5	5390.3	5393.7	5380.1	5380.1
32.5°	5142.4	5115.2	5077.8	5050.6	5023.5	5009.9	5009.9	4999.7	5006.5	5006.5	5013.3
35°	4588.7	4551.4	4531.0	4514.0	4514.0	4527.5	4568.4	4578.6	4598.9	4615.9	4629.5
37.5°	3878.8	3875.5	3899.2	3919.6	3970.6	4028.3	4099.6	4160.8	4218.5	4259.3	4300.0
40°	3111.2	3196.2	3264.1	3359.2	3437.3	3549.4	3678.4	3783.7	3882.2	3953.6	4028.3
42.5°	2428.5	2537.2	2679.9	2819.1	2958.4	3111.2	3281.1	3427.1	3556.2	3654.7	3732.8
45°	1891.9	2041.3	2214.6	2391.2	2571.2	2761.4	2938.0	3087.5	3223.3	3325.2	3403.3
47.5°	1525.0	1688.1	1885.1	2078.7	2282.5	2482.8	2679.9	2809.0	2921.0	3002.5	3073.9
50°	1260.1	1433.4	1640.5	1861.3	2065.1	2265.5	2435.3	2561.0	2652.7	2724.0	2768.2
52.5°	1052.9	1236.3	1457.1	1677.9	1881.6	2065.1	2218.0	2313.1	2387.8	2438.7	2479.4
55°	869.5	1046.2	1253.3	1460.5	1660.9	1834.1	1959.8	2031.2	2088.8	2119.4	2143.2
57.5°	709.9	872.9	1063.1	1253.3	1426.5	1569.2	1667.7	1739.0	1766.2	1790.0	1786.6
60°	557.1	709.9	883.1	1046.2	1195.6	1311.0	1382.4	1423.1	1443.5	1453.7	1446.9
62.5°	438.1	577.4	709.9	852.5	961.2	1059.7	1127.7	1127.7	1137.8	1141.2	1151.5
65°	326.0	431.3	546.8	652.1	740.4	805.0	842.4	852.5	866.1	862.7	855.9
67.5°	241.2	319.3	404.2	482.3	543.4	584.2	611.3	635.2	631.8	625.0	621.6
70°	166.5	217.4	292.1	339.7	383.8	424.6	431.3	434.7	438.1	441.6	434.7
72.5°	115.5	152.8	193.6	234.4	261.5	278.5	295.5	298.9	298.9	298.9	295.5
75°	57.8	78.1	115.5	132.5	156.2	163.1	176.6	176.6	186.8	173.2	169.8
77.5°	50.9	61.2	81.5	95.1	105.3	115.5	118.8	129.1	125.7	118.8	122.3
80°	30.6	37.4	50.9	57.8	71.3	74.7	78.1	81.5	78.1	81.5	81.5
82.5°	23.8	27.2	34.0	34.0	44.1	44.1	47.5	47.5	50.9	50.9	50.9
85°	13.5	23.8	20.4	40.7	27.2	27.2	34.0	40.7	34.0	34.0	40.7
87.5°	13.5	13.5	10.2	13.5	13.5	13.5	17.0	20.4	20.4	23.8	20.4
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: P249619

CATALOG NUMBER: LSR8B150D010 EC8B1509730 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6327.7	6327.7	6327.7	6327.7
2.5°	6338.0	6344.7	6334.6	6331.1
5°	6348.1	6348.1	6341.4	6341.4
7.5°	6348.1	6348.1	6338.0	6331.1
10°	6320.9	6320.9	6310.8	6304.0
12.5°	6270.0	6270.0	6266.6	6256.4
15°	6205.5	6205.5	6191.9	6181.7
17.5°	6117.1	6124.0	6107.0	6107.0
20°	6022.1	6018.7	6005.1	5998.3
22.5°	5923.6	5916.8	5913.4	5893.0
25°	5818.3	5811.5	5801.3	5791.1
27.5°	5638.3	5634.9	5624.7	5611.1
30°	5363.1	5359.7	5346.2	5346.2
32.5°	5006.5	5003.1	4989.5	4992.9
35°	4636.3	4649.9	4643.1	4629.5
37.5°	4327.2	4337.4	4344.2	4337.4
40°	4069.0	4099.6	4103.0	4109.8
42.5°	3794.0	3834.7	3848.3	3855.0
45°	3464.4	3501.8	3532.4	3525.6
47.5°	3128.2	3155.4	3182.5	3162.2
50°	2805.6	2822.5	2832.7	2832.7
52.5°	2499.9	2499.9	2496.5	2499.9
55°	2150.0	2150.0	2136.5	2143.2
57.5°	1783.2	1790.0	1779.8	1762.8
60°	1443.5	1426.5	1419.7	1409.6
62.5°	1124.3	1124.3	1100.5	1131.0
65°	842.4	832.2	821.9	818.5
67.5°	611.3	608.0	597.8	594.4
70°	431.3	417.8	414.4	407.6
72.5°	288.7	288.7	281.9	281.9
75°	176.6	159.6	156.2	159.6
77.5°	122.3	118.8	118.8	115.5
80°	81.5	78.1	84.9	74.7
82.5°	50.9	54.4	50.9	54.4
85°	34.0	40.7	37.4	37.4
87.5°	20.4	20.4	20.4	20.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)