

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: P249295

Luminaire Tested: **LSR8B150D010 EC8B150930 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249295
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 EC8B150930 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13527.1 lumens
Efficiency: N/A
Efficacy: 85.3 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

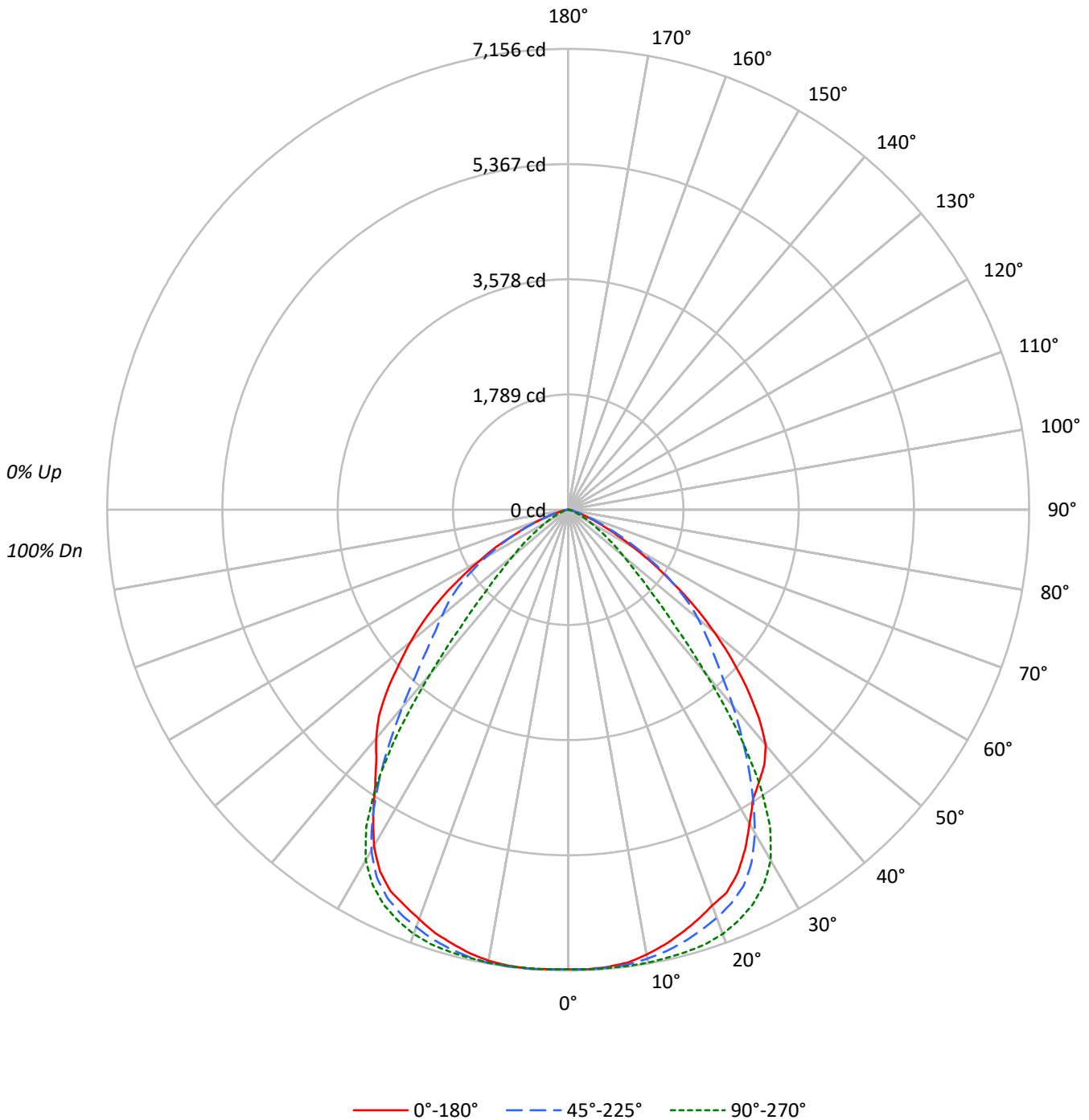
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	681.1	5.0
10°-20°	1978.1	14.6
20°-30°	3002.4	22.2
30°-40°	3153.4	23.3
40°-50°	2364.2	17.5
50°-60°	1517.0	11.2
60°-70°	648.9	4.8
70°-80°	153.3	1.1
80°-90°	28.5	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°	5661.7	41.9
0°-40°	8815.2	65.2
0°-60°	12696.4	93.9
0°-90°	13527.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13527.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7137	7137	7137	7137	7137	
5°	7126	7137	7145	7156	7152	677
15°	6804	6946	7106	7061	6972	1919
25°	6225	6444	6769	6647	6532	2844
35°	5164	4877	5168	5107	5222	3241
45°	3923	3206	1843	3115	3977	3004
55°	1984	1984	686	2069	2417	1800
65°	598	705	218	908	923	638
75°	92	107	31	184	180	134
85°	31	19	15	31	42	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°	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2
2.5°	7141.0	7148.7	7144.8	7144.8	7141.0	7144.8	7144.8	7152.5	7152.5	7144.8	7141.0
5°	7125.6	7133.4	7133.4	7125.6	7125.6	7144.8	7133.4	7141.0	7141.0	7137.2	7137.2
7.5°	7091.2	7091.2	7106.5	7095.0	7095.0	7106.5	7102.7	7110.4	7118.0	7121.9	7121.9
10°	7014.5	7022.3	7026.1	7026.1	7029.9	7041.3	7049.1	7064.4	7072.1	7079.7	7083.6
12.5°	6918.8	6930.2	6934.2	6930.2	6941.8	6957.2	6976.3	6995.5	7006.9	7022.3	7033.8
15°	6803.8	6803.8	6811.5	6823.1	6830.7	6853.7	6872.9	6895.8	6926.4	6945.6	6964.8
17.5°	6677.5	6685.2	6696.6	6696.6	6712.0	6750.2	6761.8	6796.3	6830.7	6849.9	6888.2
20°	6539.6	6547.2	6558.7	6566.4	6585.5	6616.1	6639.1	6669.8	6708.2	6742.6	6780.8
22.5°	6432.3	6416.9	6424.6	6432.3	6451.5	6478.3	6505.1	6543.4	6581.7	6616.1	6654.5
25°	6225.4	6229.2	6240.7	6248.3	6271.4	6294.4	6325.0	6371.0	6405.4	6443.7	6485.9
27.5°	5945.8	5949.6	5968.8	5968.8	5987.8	6026.2	6045.3	6083.7	6129.6	6168.0	6217.7
30°	5627.8	5635.4	5635.4	5650.7	5662.2	5681.5	5700.5	5738.8	5761.8	5796.4	5865.3
32.5°	5336.6	5344.3	5340.3	5336.6	5325.1	5321.3	5317.5	5325.1	5332.8	5344.3	5371.0
35°	5164.2	5145.1	5129.8	5102.9	5072.3	5034.0	4999.4	4953.5	4911.3	4876.8	4838.6
37.5°	4999.4	4995.6	4972.6	4934.3	4873.0	4804.2	4723.7	4624.0	4524.4	4417.2	4313.7
40°	4769.6	4758.1	4738.9	4685.3	4616.4	4532.1	4424.8	4302.2	4141.3	3976.6	3808.0
42.5°	4378.9	4382.7	4359.7	4317.5	4252.4	4171.9	4060.8	3926.8	3754.5	3559.0	3340.7
45°	3922.9	3922.9	3915.3	3880.8	3834.8	3769.7	3685.4	3574.3	3405.8	3206.5	2972.8
47.5°	3447.9	3451.8	3440.2	3432.6	3413.4	3371.3	3310.0	3225.8	3107.0	2915.4	2681.7
50°	2965.3	2965.3	2984.3	2980.5	2980.5	2965.3	2938.5	2888.6	2785.1	2631.9	2413.6
52.5°	2482.5	2490.2	2501.7	2517.0	2536.2	2566.8	2536.2	2513.2	2448.0	2329.2	2141.6
55°	1984.4	1992.1	2011.3	2038.1	2061.1	2091.8	2099.4	2099.4	2064.9	1984.4	1842.7
57.5°	1559.2	1547.8	1563.1	1586.1	1616.7	1647.3	1670.3	1697.2	1693.3	1639.7	1524.8
60°	1172.3	1176.2	1187.6	1210.7	1233.5	1260.5	1291.1	1314.0	1325.6	1298.8	1225.9
62.5°	854.3	854.3	869.6	892.5	904.1	942.4	961.6	973.1	984.6	980.7	934.8
65°	597.7	605.2	613.0	624.5	635.9	658.9	670.5	693.3	701.1	704.9	670.5
67.5°	421.5	409.9	417.6	425.2	436.7	452.1	475.1	475.1	486.5	486.5	463.5
70°	268.1	268.1	272.1	283.5	291.1	295.0	302.7	310.3	321.8	317.9	317.9
72.5°	180.0	176.2	180.0	184.0	187.8	199.2	199.2	203.0	210.7	214.6	199.2
75°	91.9	95.8	103.4	99.7	111.1	103.4	107.3	118.7	114.9	107.3	107.3
77.5°	76.6	76.6	76.6	72.9	80.4	80.4	76.6	84.3	80.4	80.4	76.6
80°	53.6	57.5	53.6	49.8	53.6	49.8	49.8	49.8	49.8	49.8	46.0
82.5°	42.1	34.5	38.3	34.5	38.3	38.3	34.5	30.6	30.6	34.5	30.6
85°	30.6	23.0	26.8	26.8	23.0	23.0	23.0	23.0	23.0	19.2	19.2
87.5°	19.2	11.5	11.5	11.5	15.2	15.2	15.2	11.5	15.2	15.2	7.7
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°	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2
2.5°	7148.7	7144.8	7152.5	7148.7	7148.7	7144.8	7148.7	7144.8	7152.5	7137.2	7141.0
5°	7148.7	7141.0	7144.8	7148.7	7152.5	7144.8	7144.8	7144.8	7152.5	7144.8	7148.7
7.5°	7133.4	7129.4	7141.0	7148.7	7144.8	7141.0	7148.7	7144.8	7152.5	7148.7	7156.2
10°	7102.7	7106.5	7114.2	7125.6	7129.4	7133.4	7141.0	7141.0	7152.5	7137.2	7144.8
12.5°	7056.7	7072.1	7091.2	7098.8	7114.2	7114.2	7121.9	7125.6	7133.4	7129.4	7141.0
15°	6999.3	7018.4	7041.3	7060.6	7079.7	7091.2	7102.7	7106.5	7118.0	7106.5	7110.4
17.5°	6930.2	6953.2	6987.8	7010.7	7041.3	7052.9	7068.1	7075.9	7087.4	7079.7	7083.6
20°	6834.5	6861.4	6899.6	6934.2	6953.2	6980.0	6999.3	7010.7	7018.4	7010.7	7014.5
22.5°	6700.4	6738.8	6788.6	6815.3	6853.7	6876.7	6880.5	6907.3	6926.4	6907.3	6915.0
25°	6543.4	6581.7	6620.1	6677.5	6712.0	6738.8	6765.6	6769.4	6788.6	6784.7	6780.8
27.5°	6282.9	6332.8	6397.8	6443.7	6489.7	6531.8	6562.6	6570.2	6589.4	6581.7	6585.5
30°	5926.5	5980.2	6041.5	6114.3	6179.4	6221.6	6259.9	6286.7	6305.8	6294.4	6290.5
32.5°	5420.9	5474.5	5539.6	5612.4	5689.1	5750.3	5796.4	5830.8	5853.7	5846.1	5827.0
35°	4842.5	4857.7	4899.9	4957.4	5022.4	5087.5	5129.8	5168.0	5194.8	5202.4	5202.4
37.5°	4248.6	4198.8	4168.2	4168.2	4206.4	4233.2	4271.6	4294.6	4336.7	4352.1	4363.5
40°	3673.9	3559.0	3451.8	3371.3	3317.7	3313.9	3313.9	3325.3	3363.7	3413.4	3459.4
42.5°	3160.5	2976.7	2811.9	2662.6	2555.3	2494.0	2467.2	2471.0	2501.7	2547.6	2624.3
45°	2750.7	2520.8	2314.0	2133.8	1988.3	1892.5	1846.5	1842.7	1865.7	1919.3	2003.7
47.5°	2432.7	2187.5	1953.8	1747.0	1589.9	1486.4	1432.8	1417.5	1432.8	1482.5	1582.2
50°	2168.4	1915.6	1674.2	1459.7	1291.1	1183.8	1134.0	1114.8	1134.0	1176.2	1275.7
52.5°	1923.2	1662.7	1436.7	1229.7	1049.7	957.8	904.1	892.5	904.1	953.9	1034.5
55°	1639.7	1417.5	1195.2	988.4	831.3	739.4	697.3	685.8	697.3	743.2	827.5
57.5°	1360.0	1168.4	973.1	785.4	651.3	570.8	532.5	517.1	544.0	574.6	674.3
60°	1099.5	946.2	781.4	616.8	505.7	432.9	402.2	398.4	406.0	444.4	513.3
62.5°	862.0	735.6	605.2	471.3	379.2	348.6	310.3	306.5	314.1	337.1	390.8
65°	620.7	540.2	440.6	344.8	272.1	229.8	214.6	218.4	226.0	241.4	291.1
67.5°	432.9	375.4	306.5	241.4	187.8	168.6	153.2	149.4	153.2	180.0	206.9
70°	291.1	256.7	206.9	184.0	130.3	103.4	107.3	95.8	111.1	111.1	134.1
72.5°	191.5	168.6	137.9	107.3	91.9	72.9	72.9	68.9	76.6	80.4	99.7
75°	99.7	76.6	76.6	53.6	38.3	19.2	34.5	30.6	26.8	30.6	38.3
77.5°	68.9	57.5	53.6	42.1	38.3	30.6	30.6	30.6	30.6	34.5	38.3
80°	42.1	42.1	30.6	26.8	23.0	19.2	23.0	23.0	23.0	23.0	26.8
82.5°	26.8	23.0	23.0	19.2	19.2	15.2	15.2	15.2	15.2	15.2	23.0
85°	23.0	15.2	15.2	11.5	15.2	26.8	11.5	15.2	15.2	15.2	11.5
87.5°	7.7	11.5	11.5	11.5	7.7	3.8	7.7	11.5	11.5	19.2	15.2
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°	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2	7137.2
2.5°	7148.7	7152.5	7152.5	7148.7	7148.7	7141.0	7156.2	7144.8	7148.7	7164.0	7152.5
5°	7156.2	7160.2	7160.2	7156.2	7156.2	7156.2	7160.2	7160.2	7156.2	7152.5	7160.2
7.5°	7171.7	7167.8	7167.8	7160.2	7160.2	7152.5	7160.2	7148.7	7156.2	7148.7	7160.2
10°	7152.5	7156.2	7152.5	7148.7	7148.7	7144.8	7144.8	7133.4	7137.2	7125.6	7133.4
12.5°	7141.0	7137.2	7137.2	7129.4	7121.9	7114.2	7110.4	7098.8	7098.8	7072.1	7083.6
15°	7110.4	7114.2	7102.7	7087.4	7079.7	7060.6	7052.9	7037.5	7022.3	7003.1	7006.9
17.5°	7083.6	7072.1	7056.7	7041.3	7010.7	6995.5	6980.0	6957.2	6949.4	6926.4	6918.8
20°	7003.1	6995.5	6976.3	6949.4	6930.2	6895.8	6880.5	6857.5	6838.3	6815.3	6803.8
22.5°	6899.6	6891.9	6868.9	6842.1	6811.5	6796.3	6780.8	6738.8	6719.6	6696.6	6692.7
25°	6769.4	6757.9	6735.0	6704.3	6688.9	6646.9	6631.5	6600.8	6593.2	6570.2	6566.4
27.5°	6570.2	6554.8	6528.0	6489.7	6462.9	6436.1	6420.9	6397.8	6390.1	6367.1	6363.4
30°	6271.4	6252.2	6198.6	6183.3	6137.3	6110.5	6110.5	6079.7	6083.7	6068.3	6068.3
32.5°	5800.2	5769.6	5727.3	5696.7	5666.0	5650.7	5650.7	5639.2	5646.9	5646.9	5654.5
35°	5175.7	5133.6	5110.5	5091.5	5091.5	5106.7	5152.7	5164.2	5187.2	5206.4	5221.7
37.5°	4374.9	4371.2	4398.0	4421.0	4478.5	4543.6	4624.0	4693.1	4758.1	4804.2	4850.0
40°	3509.2	3605.0	3681.6	3788.9	3877.0	4003.4	4148.9	4267.8	4378.9	4459.3	4543.6
42.5°	2739.2	2861.8	3022.7	3179.7	3336.8	3509.2	3700.8	3865.5	4011.1	4122.1	4210.3
45°	2133.8	2302.4	2497.8	2697.0	2900.1	3114.7	3313.9	3482.4	3635.6	3750.5	3838.6
47.5°	1720.1	1904.0	2126.2	2344.6	2574.5	2800.5	3022.7	3168.3	3294.6	3386.5	3467.1
50°	1421.3	1616.7	1850.4	2099.4	2329.2	2555.3	2746.8	2888.6	2992.1	3072.4	3122.2
52.5°	1187.6	1394.4	1643.5	1892.5	2122.4	2329.2	2501.7	2608.9	2693.2	2750.7	2796.6
55°	980.7	1180.0	1413.7	1647.3	1873.4	2068.7	2210.5	2291.0	2356.0	2390.5	2417.3
57.5°	800.7	984.6	1199.1	1413.7	1609.0	1769.9	1881.0	1961.5	1992.1	2018.9	2015.1
60°	628.3	800.7	996.1	1180.0	1348.6	1478.7	1559.2	1605.2	1628.1	1639.7	1632.0
62.5°	494.1	651.3	800.7	961.6	1084.2	1195.2	1271.9	1271.9	1283.3	1287.2	1298.8
65°	367.7	486.5	616.8	735.6	835.1	907.9	950.2	961.6	977.0	973.1	965.4
67.5°	272.1	360.2	455.8	544.0	613.0	658.9	689.5	716.4	712.6	704.9	701.1
70°	187.8	245.2	329.5	383.2	432.9	478.9	486.5	490.3	494.1	498.1	490.3
72.5°	130.3	172.4	218.4	264.3	295.0	314.1	333.4	337.1	337.1	337.1	333.4
75°	65.1	88.1	130.3	149.4	176.2	184.0	199.2	199.2	210.7	195.4	191.5
77.5°	57.5	68.9	91.9	107.3	118.7	130.3	134.1	145.6	141.7	134.1	137.9
80°	34.5	42.1	57.5	65.1	80.4	84.3	88.1	91.9	88.1	91.9	91.9
82.5°	26.8	30.6	38.3	38.3	49.8	49.8	53.6	53.6	57.5	57.5	57.5
85°	15.2	26.8	23.0	46.0	30.6	30.6	38.3	46.0	38.3	38.3	46.0
87.5°	15.2	15.2	11.5	15.2	15.2	15.2	19.2	23.0	23.0	26.8	23.0
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: P249295

CATALOG NUMBER: LSR8B150D010 EC8B150930 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7137.2	7137.2	7137.2	7137.2
2.5°	7148.7	7156.2	7144.8	7141.0
5°	7160.2	7160.2	7152.5	7152.5
7.5°	7160.2	7160.2	7148.7	7141.0
10°	7129.4	7129.4	7118.0	7110.4
12.5°	7072.1	7072.1	7068.1	7056.7
15°	6999.3	6999.3	6983.9	6972.5
17.5°	6899.6	6907.3	6888.2	6888.2
20°	6792.4	6788.6	6773.3	6765.6
22.5°	6681.3	6673.6	6669.8	6646.9
25°	6562.6	6554.8	6543.4	6531.8
27.5°	6359.5	6355.6	6344.2	6328.8
30°	6049.1	6045.3	6030.0	6030.0
32.5°	5646.9	5643.1	5627.8	5631.7
35°	5229.4	5244.7	5237.0	5221.7
37.5°	4880.7	4892.3	4899.9	4892.3
40°	4589.5	4624.0	4627.8	4635.6
42.5°	4279.3	4325.2	4340.5	4348.1
45°	3907.6	3949.7	3984.3	3976.6
47.5°	3528.3	3559.0	3589.7	3566.7
50°	3164.5	3183.5	3195.1	3195.1
52.5°	2819.7	2819.7	2815.8	2819.7
55°	2425.1	2425.1	2409.7	2417.3
57.5°	2011.3	2018.9	2007.4	1988.3
60°	1628.1	1609.0	1601.3	1589.9
62.5°	1268.1	1268.1	1241.3	1275.7
65°	950.2	938.6	927.1	923.3
67.5°	689.5	685.8	674.3	670.5
70°	486.5	471.3	467.3	459.7
72.5°	325.7	325.7	317.9	317.9
75°	199.2	180.0	176.2	180.0
77.5°	137.9	134.1	134.1	130.3
80°	91.9	88.1	95.8	84.3
82.5°	57.5	61.3	57.5	61.3
85°	38.3	46.0	42.1	42.1
87.5°	23.0	23.0	23.0	23.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)