

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: P246163

Luminaire Tested: **LSR8B15D010 EC8B159727 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246163
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: LSR8B15D010 EC8B159727 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 965.0 lumens
Efficiency: N/A
Efficacy: 67.0 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

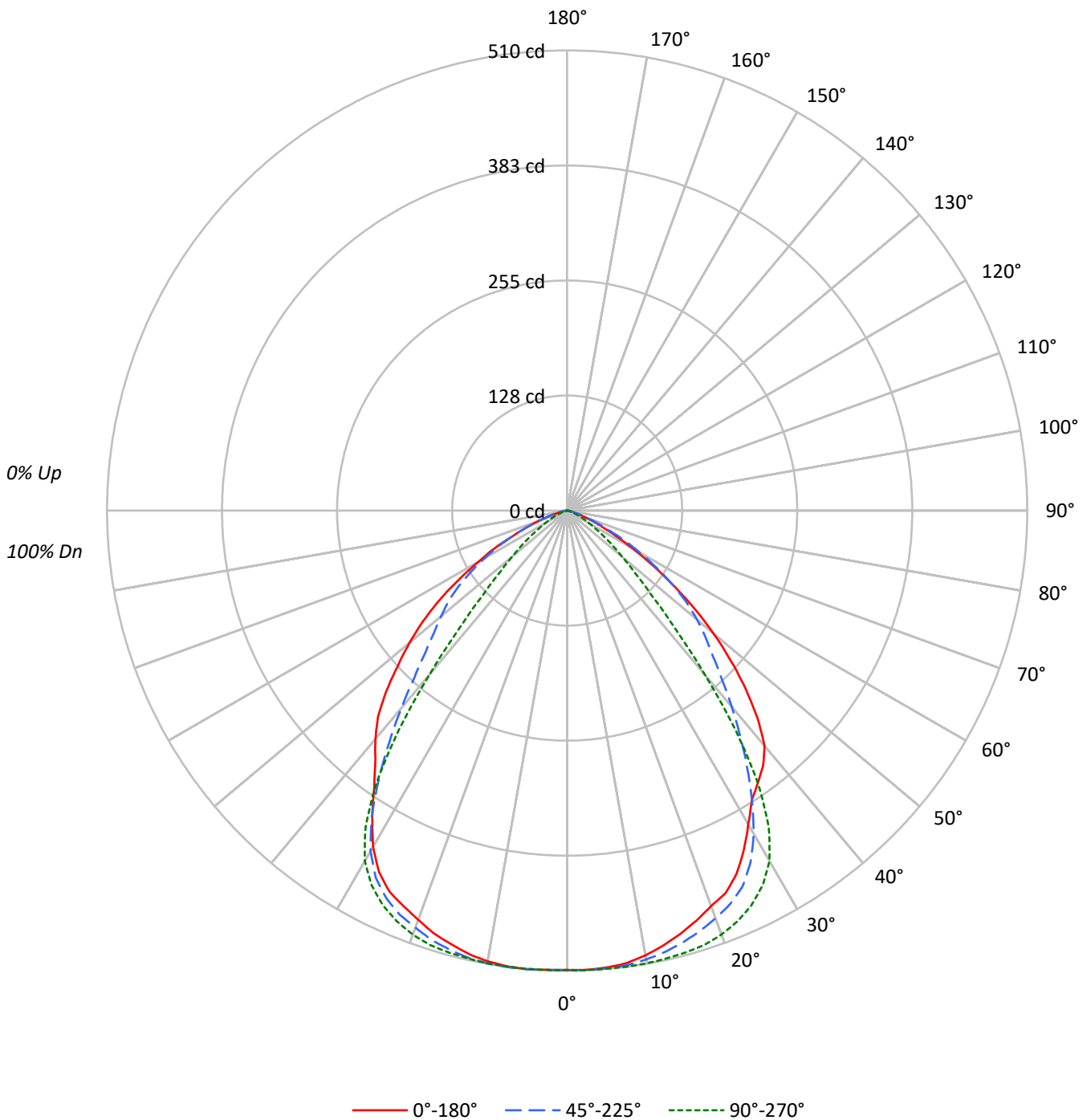
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246163

CATALOG NUMBER: LSR8B15D010 EC8B159727 8LBDW0B

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°			



TEST NUMBER: P246163

CATALOG NUMBER: LSR8B15D010 EC8B159727 8LBDW0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	5.0
10°-20°	141.1	14.6
20°-30°	214.2	22.2
30°-40°	225.0	23.3
40°-50°	168.7	17.5
50°-60°	108.2	11.2
60°-70°	46.3	4.8
70°-80°	10.9	1.1
80°-90°	2.0	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°	403.9	41.9
0°-40°	628.9	65.2
0°-60°	905.7	93.9
0°-90°	965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	965.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	509	509	509	509	509	
5°	508	509	510	510	510	48
15°	485	496	507	504	497	137
25°	444	460	483	474	466	203
35°	368	348	369	364	372	231
45°	280	229	132	222	284	214
55°	142	142	49	148	172	128
65°	43	50	16	65	66	45
75°	7	8	2	13	13	10
85°	2	1	1	2	3	2
90°	0	0	0	0	0	



TEST NUMBER: P246163

CATALOG NUMBER: LSR8B15D010 EC8B159727 8LBDW0B

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2
2.5°	509.4	510.0	509.7	509.7	509.4	509.7	509.7	510.2	510.2	509.7	509.4
5°	508.3	508.9	508.9	508.3	508.3	509.7	508.9	509.4	509.4	509.2	509.2
7.5°	505.9	505.9	507.0	506.2	506.2	507.0	506.7	507.2	507.8	508.1	508.1
10°	500.4	501.0	501.2	501.2	501.5	502.3	502.9	504.0	504.5	505.1	505.3
12.5°	493.6	494.4	494.7	494.4	495.2	496.3	497.7	499.0	499.9	501.0	501.8
15°	485.4	485.4	485.9	486.7	487.3	488.9	490.3	491.9	494.1	495.5	496.9
17.5°	476.4	476.9	477.7	477.7	478.8	481.5	482.4	484.8	487.3	488.7	491.4
20°	466.5	467.1	467.9	468.4	469.8	472.0	473.6	475.8	478.5	481.0	483.7
22.5°	458.9	457.8	458.3	458.9	460.2	462.1	464.1	466.8	469.5	472.0	474.7
25°	444.1	444.4	445.2	445.7	447.4	449.0	451.2	454.5	457.0	459.7	462.7
27.5°	424.2	424.4	425.8	425.8	427.2	429.9	431.3	434.0	437.3	440.0	443.6
30°	401.5	402.0	402.0	403.1	403.9	405.3	406.7	409.4	411.0	413.5	418.4
32.5°	380.7	381.2	381.0	380.7	379.9	379.6	379.3	379.9	380.4	381.2	383.2
35°	368.4	367.0	365.9	364.0	361.8	359.1	356.7	353.4	350.4	347.9	345.2
37.5°	356.7	356.4	354.7	352.0	347.6	342.7	337.0	329.9	322.8	315.1	307.7
40°	340.3	339.4	338.1	334.2	329.3	323.3	315.7	306.9	295.4	283.7	271.7
42.5°	312.4	312.7	311.0	308.0	303.4	297.6	289.7	280.1	267.8	253.9	238.3
45°	279.9	279.9	279.3	276.8	273.6	268.9	262.9	255.0	243.0	228.7	212.1
47.5°	246.0	246.2	245.4	244.9	243.5	240.5	236.1	230.1	221.6	208.0	191.3
50°	211.5	211.5	212.9	212.6	212.6	211.5	209.6	206.1	198.7	187.8	172.2
52.5°	177.1	177.6	178.5	179.6	180.9	183.1	180.9	179.3	174.6	166.2	152.8
55°	141.6	142.1	143.5	145.4	147.0	149.2	149.8	149.8	147.3	141.6	131.5
57.5°	111.2	110.4	111.5	113.1	115.3	117.5	119.2	121.1	120.8	117.0	108.8
60°	83.6	83.9	84.7	86.4	88.0	89.9	92.1	93.7	94.6	92.7	87.5
62.5°	60.9	60.9	62.0	63.7	64.5	67.2	68.6	69.4	70.2	70.0	66.7
65°	42.6	43.2	43.7	44.5	45.4	47.0	47.8	49.5	50.0	50.3	47.8
67.5°	30.1	29.2	29.8	30.3	31.2	32.3	33.9	33.9	34.7	34.7	33.1
70°	19.1	19.1	19.4	20.2	20.8	21.0	21.6	22.1	23.0	22.7	22.7
72.5°	12.8	12.6	12.8	13.1	13.4	14.2	14.2	14.5	15.0	15.3	14.2
75°	6.6	6.8	7.4	7.1	7.9	7.4	7.7	8.5	8.2	7.7	7.7
77.5°	5.5	5.5	5.5	5.2	5.7	5.7	5.5	6.0	5.7	5.7	5.5
80°	3.8	4.1	3.8	3.6	3.8	3.6	3.6	3.6	3.6	3.6	3.3
82.5°	3.0	2.5	2.7	2.5	2.7	2.7	2.5	2.2	2.2	2.5	2.2
85°	2.2	1.6	1.9	1.9	1.6	1.6	1.6	1.6	1.6	1.4	1.4
87.5°	1.4	0.8	0.8	0.8	1.1	1.1	1.1	0.8	1.1	1.1	0.5
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: P246163

CATALOG NUMBER: LSR8B15D010 EC8B159727 8LBDW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2
2.5°	510.0	509.7	510.2	510.0	510.0	509.7	510.0	509.7	510.2	509.2	509.4
5°	510.0	509.4	509.7	510.0	510.2	509.7	509.7	509.7	510.2	509.7	510.0
7.5°	508.9	508.6	509.4	510.0	509.7	509.4	510.0	509.7	510.2	510.0	510.5
10°	506.7	507.0	507.5	508.3	508.6	508.9	509.4	509.4	510.2	509.2	509.7
12.5°	503.4	504.5	505.9	506.4	507.5	507.5	508.1	508.3	508.9	508.6	509.4
15°	499.3	500.7	502.3	503.7	505.1	505.9	506.7	507.0	507.8	507.0	507.2
17.5°	494.4	496.0	498.5	500.1	502.3	503.1	504.2	504.8	505.6	505.1	505.3
20°	487.6	489.5	492.2	494.7	496.0	497.9	499.3	500.1	500.7	500.1	500.4
22.5°	478.0	480.7	484.3	486.2	488.9	490.6	490.8	492.8	494.1	492.8	493.3
25°	466.8	469.5	472.3	476.4	478.8	480.7	482.6	482.9	484.3	484.0	483.7
27.5°	448.2	451.8	456.4	459.7	463.0	466.0	468.2	468.7	470.1	469.5	469.8
30°	422.8	426.6	431.0	436.2	440.8	443.8	446.6	448.5	449.8	449.0	448.8
32.5°	386.7	390.5	395.2	400.4	405.8	410.2	413.5	416.0	417.6	417.1	415.7
35°	345.5	346.5	349.6	353.6	358.3	362.9	365.9	368.7	370.6	371.1	371.1
37.5°	303.1	299.5	297.4	297.4	300.1	302.0	304.7	306.4	309.4	310.5	311.3
40°	262.1	253.9	246.2	240.5	236.7	236.4	236.4	237.2	240.0	243.5	246.8
42.5°	225.5	212.4	200.6	189.9	182.3	177.9	176.0	176.3	178.5	181.7	187.2
45°	196.2	179.8	165.1	152.2	141.8	135.0	131.7	131.5	133.1	136.9	142.9
47.5°	173.5	156.1	139.4	124.6	113.4	106.0	102.2	101.1	102.2	105.8	112.9
50°	154.7	136.7	119.4	104.1	92.1	84.5	80.9	79.5	80.9	83.9	91.0
52.5°	137.2	118.6	102.5	87.7	74.9	68.3	64.5	63.7	64.5	68.0	73.8
55°	117.0	101.1	85.3	70.5	59.3	52.7	49.7	48.9	49.7	53.0	59.0
57.5°	97.0	83.4	69.4	56.0	46.5	40.7	38.0	36.9	38.8	41.0	48.1
60°	78.4	67.5	55.8	44.0	36.1	30.9	28.7	28.4	29.0	31.7	36.6
62.5°	61.5	52.5	43.2	33.6	27.1	24.9	22.1	21.9	22.4	24.0	27.9
65°	44.3	38.5	31.4	24.6	19.4	16.4	15.3	15.6	16.1	17.2	20.8
67.5°	30.9	26.8	21.9	17.2	13.4	12.0	10.9	10.7	10.9	12.8	14.8
70°	20.8	18.3	14.8	13.1	9.3	7.4	7.7	6.8	7.9	7.9	9.6
72.5°	13.7	12.0	9.8	7.7	6.6	5.2	5.2	4.9	5.5	5.7	7.1
75°	7.1	5.5	5.5	3.8	2.7	1.4	2.5	2.2	1.9	2.2	2.7
77.5°	4.9	4.1	3.8	3.0	2.7	2.2	2.2	2.2	2.2	2.5	2.7
80°	3.0	3.0	2.2	1.9	1.6	1.4	1.6	1.6	1.6	1.6	1.9
82.5°	1.9	1.6	1.6	1.4	1.4	1.1	1.1	1.1	1.1	1.1	1.6
85°	1.6	1.1	1.1	0.8	1.1	1.9	0.8	1.1	1.1	1.1	0.8
87.5°	0.5	0.8	0.8	0.8	0.5	0.3	0.5	0.8	0.8	1.4	1.1
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: P246163

CATALOG NUMBER: LSR8B15D010 EC8B159727 8LBDW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2
2.5°	510.0	510.2	510.2	510.0	510.0	509.4	510.5	509.7	510.0	511.1	510.2
5°	510.5	510.8	510.8	510.5	510.5	510.5	510.8	510.8	510.5	510.2	510.8
7.5°	511.6	511.3	511.3	510.8	510.8	510.2	510.8	510.0	510.5	510.0	510.8
10°	510.2	510.5	510.2	510.0	510.0	509.7	509.7	508.9	509.2	508.3	508.9
12.5°	509.4	509.2	509.2	508.6	508.1	507.5	507.2	506.4	506.4	504.5	505.3
15°	507.2	507.5	506.7	505.6	505.1	503.7	503.1	502.0	501.0	499.6	499.9
17.5°	505.3	504.5	503.4	502.3	500.1	499.0	497.9	496.3	495.8	494.1	493.6
20°	499.6	499.0	497.7	495.8	494.4	491.9	490.8	489.2	487.8	486.2	485.4
22.5°	492.2	491.7	490.0	488.1	485.9	484.8	483.7	480.7	479.4	477.7	477.4
25°	482.9	482.1	480.5	478.3	477.2	474.2	473.1	470.9	470.3	468.7	468.4
27.5°	468.7	467.6	465.7	463.0	461.1	459.1	458.0	456.4	455.9	454.2	454.0
30°	447.4	446.0	442.2	441.1	437.8	435.9	435.9	433.7	434.0	432.9	432.9
32.5°	413.8	411.6	408.6	406.4	404.2	403.1	403.1	402.3	402.8	402.8	403.4
35°	369.2	366.2	364.6	363.2	363.2	364.3	367.6	368.4	370.0	371.4	372.5
37.5°	312.1	311.8	313.7	315.4	319.5	324.1	329.9	334.8	339.4	342.7	346.0
40°	250.3	257.2	262.6	270.3	276.6	285.6	296.0	304.5	312.4	318.1	324.1
42.5°	195.4	204.2	215.6	226.8	238.0	250.3	264.0	275.8	286.1	294.1	300.4
45°	152.2	164.2	178.2	192.4	206.9	222.2	236.4	248.4	259.4	267.6	273.8
47.5°	122.7	135.8	151.7	167.3	183.7	199.8	215.6	226.0	235.0	241.6	247.3
50°	101.4	115.3	132.0	149.8	166.2	182.3	196.0	206.1	213.4	219.2	222.7
52.5°	84.7	99.5	117.2	135.0	151.4	166.2	178.5	186.1	192.1	196.2	199.5
55°	70.0	84.2	100.8	117.5	133.6	147.6	157.7	163.4	168.1	170.5	172.4
57.5°	57.1	70.2	85.5	100.8	114.8	126.3	134.2	139.9	142.1	144.0	143.8
60°	44.8	57.1	71.1	84.2	96.2	105.5	111.2	114.5	116.1	117.0	116.4
62.5°	35.3	46.5	57.1	68.6	77.3	85.3	90.7	90.7	91.6	91.8	92.7
65°	26.2	34.7	44.0	52.5	59.6	64.8	67.8	68.6	69.7	69.4	68.9
67.5°	19.4	25.7	32.5	38.8	43.7	47.0	49.2	51.1	50.8	50.3	50.0
70°	13.4	17.5	23.5	27.3	30.9	34.2	34.7	35.0	35.3	35.5	35.0
72.5°	9.3	12.3	15.6	18.9	21.0	22.4	23.8	24.0	24.0	24.0	23.8
75°	4.6	6.3	9.3	10.7	12.6	13.1	14.2	14.2	15.0	13.9	13.7
77.5°	4.1	4.9	6.6	7.7	8.5	9.3	9.6	10.4	10.1	9.6	9.8
80°	2.5	3.0	4.1	4.6	5.7	6.0	6.3	6.6	6.3	6.6	6.6
82.5°	1.9	2.2	2.7	2.7	3.6	3.6	3.8	3.8	4.1	4.1	4.1
85°	1.1	1.9	1.6	3.3	2.2	2.2	2.7	3.3	2.7	2.7	3.3
87.5°	1.1	1.1	0.8	1.1	1.1	1.1	1.4	1.6	1.6	1.9	1.6
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: P246163

CATALOG NUMBER: LSR8B15D010 EC8B159727 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	509.2	509.2	509.2	509.2
2.5°	510.0	510.5	509.7	509.4
5°	510.8	510.8	510.2	510.2
7.5°	510.8	510.8	510.0	509.4
10°	508.6	508.6	507.8	507.2
12.5°	504.5	504.5	504.2	503.4
15°	499.3	499.3	498.2	497.4
17.5°	492.2	492.8	491.4	491.4
20°	484.6	484.3	483.2	482.6
22.5°	476.6	476.1	475.8	474.2
25°	468.2	467.6	466.8	466.0
27.5°	453.7	453.4	452.6	451.5
30°	431.5	431.3	430.2	430.2
32.5°	402.8	402.6	401.5	401.8
35°	373.0	374.1	373.6	372.5
37.5°	348.2	349.0	349.6	349.0
40°	327.4	329.9	330.1	330.7
42.5°	305.3	308.6	309.6	310.2
45°	278.8	281.8	284.2	283.7
47.5°	251.7	253.9	256.1	254.4
50°	225.7	227.1	227.9	227.9
52.5°	201.1	201.1	200.9	201.1
55°	173.0	173.0	171.9	172.4
57.5°	143.5	144.0	143.2	141.8
60°	116.1	114.8	114.2	113.4
62.5°	90.5	90.5	88.6	91.0
65°	67.8	67.0	66.1	65.9
67.5°	49.2	48.9	48.1	47.8
70°	34.7	33.6	33.3	32.8
72.5°	23.2	23.2	22.7	22.7
75°	14.2	12.8	12.6	12.8
77.5°	9.8	9.6	9.6	9.3
80°	6.6	6.3	6.8	6.0
82.5°	4.1	4.4	4.1	4.4
85°	2.7	3.3	3.0	3.0
87.5°	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)