

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: P245520

Luminaire Tested: **LSR8B10D010 EC8B109730 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B109730 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 858.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

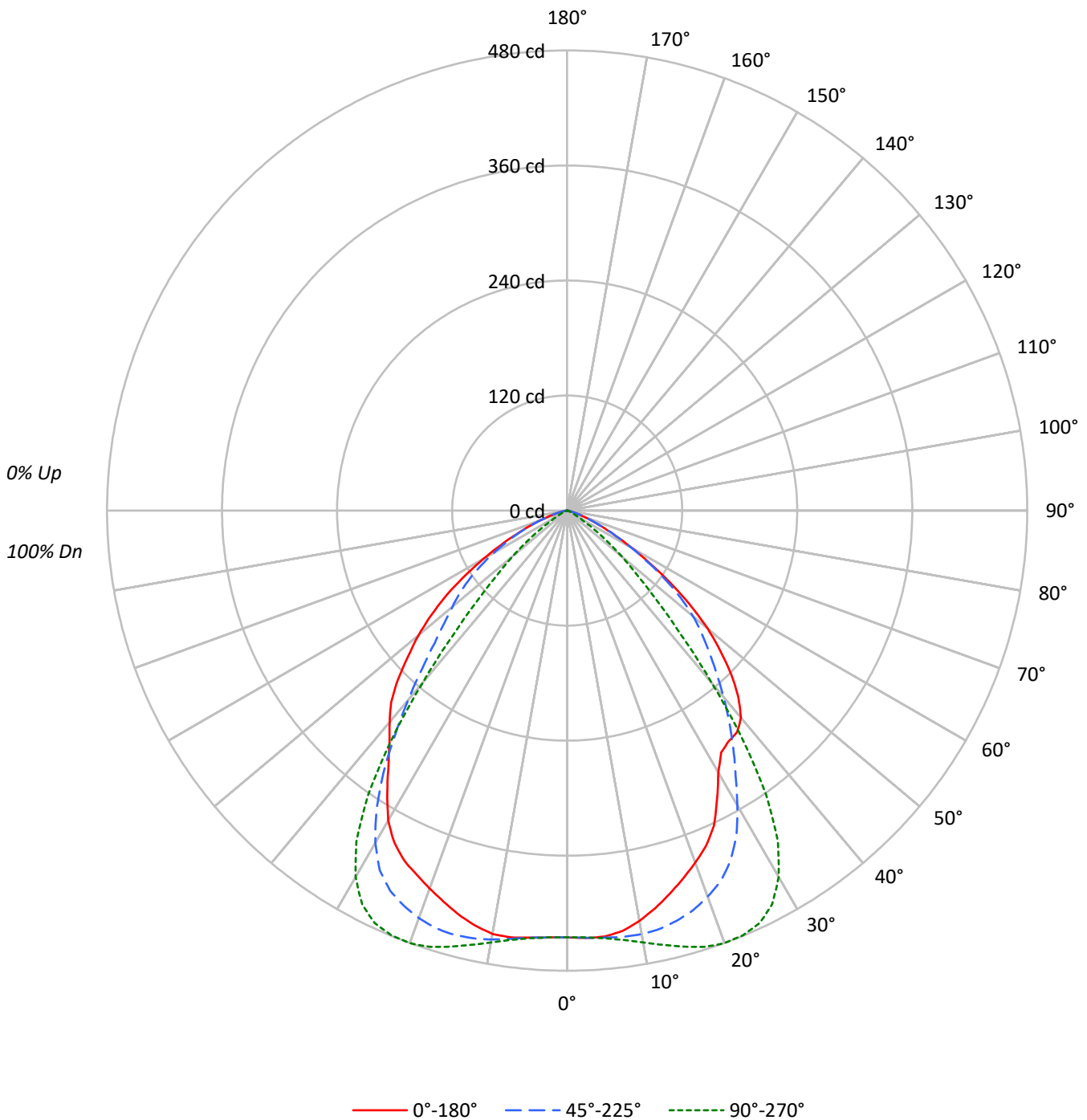
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245520

CATALOG NUMBER: LSR8B10D010 EC8B109730 8LBDW0WH

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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	92	90		
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70		
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62		
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56		
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50		
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45		
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41		
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38		
10	60	48	41	36	59	48	41	36	47	41	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°	42.8	5.0
10°-20°	126.8	14.8
20°-30°	193.4	22.5
30°-40°	201.9	23.5
40°-50°	151.6	17.7
50°-60°	93.3	10.9
60°-70°	38.0	4.4
70°-80°	8.9	1.0
80°-90°	1.2	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°	363.1	42.3
0°-40°	564.9	65.8
0°-60°	809.9	94.4
0°-90°	858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	858.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	445	445	445	445	445	
5°	446	447	448	447	447	42
15°	414	443	471	458	436	117
25°	362	403	475	437	403	165
35°	294	302	362	334	325	185
45°	242	210	131	195	250	185
55°	131	124	34	124	153	118
65°	41	41	5	56	59	43
75°	7	7	1	12	13	9
85°	1	1	0	2	2	1
90°	0	0	0	0	0	



TEST NUMBER: P245520

CATALOG NUMBER: LSR8B10D010 EC8B109730 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1
2.5°	446.3	445.6	446.3	446.3	446.5	446.0	446.3	446.5	446.0	446.0	446.0
5°	446.0	445.6	446.0	445.8	446.3	446.3	446.8	446.8	447.2	447.2	447.9
7.5°	442.3	441.3	442.3	443.0	443.4	444.4	445.6	446.5	447.5	448.4	449.6
10°	434.5	434.5	435.2	436.6	438.0	439.7	441.8	444.2	446.5	448.6	450.8
12.5°	424.8	424.1	425.5	427.4	429.5	432.1	435.4	439.0	442.7	447.0	450.3
15°	413.7	413.0	414.6	416.5	419.1	422.9	426.9	431.6	437.1	442.7	448.2
17.5°	402.3	402.1	403.8	406.4	408.5	412.5	417.7	423.4	429.5	437.1	444.2
20°	390.8	390.5	392.2	394.3	397.1	400.9	406.1	412.7	420.1	428.6	436.8
22.5°	378.7	379.0	380.4	382.7	385.1	389.1	394.5	401.2	409.2	418.4	427.6
25°	362.4	361.2	363.1	365.5	369.5	372.8	378.0	385.1	393.4	403.1	413.9
27.5°	338.8	338.5	340.2	342.3	345.9	349.9	355.6	362.9	371.6	382.3	392.9
30°	315.2	315.6	316.3	318.5	320.8	324.8	330.5	336.7	344.9	355.1	366.4
32.5°	299.1	299.1	300.0	301.5	303.1	305.2	309.3	313.7	320.1	327.2	335.5
35°	293.7	292.7	293.7	293.9	294.1	294.6	295.3	296.7	298.9	301.9	305.0
37.5°	291.3	290.6	290.6	289.6	288.5	287.0	285.2	283.0	280.7	277.6	275.2
40°	282.1	281.6	281.1	280.2	277.6	274.8	271.7	266.7	261.3	253.7	246.2
42.5°	264.4	263.9	263.7	261.8	259.4	256.1	252.6	247.4	240.5	230.8	220.0
45°	242.4	241.5	240.7	239.1	237.4	234.6	231.3	226.6	219.7	209.8	196.8
47.5°	216.9	216.4	216.2	215.5	213.8	212.2	210.0	206.3	200.1	190.7	177.2
50°	191.1	190.2	190.7	190.4	189.7	188.5	187.1	184.5	179.8	171.3	159.0
52.5°	161.6	161.6	161.4	162.1	162.3	162.1	162.3	159.5	155.5	149.1	138.7
55°	130.9	130.9	131.6	132.5	133.5	133.7	133.5	132.3	129.5	124.3	115.1
57.5°	102.1	101.6	103.0	104.4	105.4	106.3	105.6	104.7	103.0	98.8	91.7
60°	77.7	77.7	78.7	79.6	80.6	81.5	81.3	81.0	79.6	76.8	71.1
62.5°	57.2	57.4	57.4	58.1	59.1	60.0	60.7	60.0	59.3	57.4	53.6
65°	40.9	40.6	40.9	41.6	42.3	43.2	43.7	43.5	42.8	41.3	38.5
67.5°	27.4	27.2	28.1	28.3	28.8	29.8	29.5	29.8	29.5	28.3	26.0
70°	18.0	17.5	18.0	17.7	18.4	18.7	19.1	19.4	19.1	18.4	17.7
72.5°	11.1	10.9	11.1	11.3	11.6	11.8	12.3	12.3	12.0	11.6	10.6
75°	7.1	6.4	6.6	6.1	6.6	6.6	7.1	7.3	7.1	7.1	6.6
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.5	4.7	4.3	4.0
80°	2.1	2.1	2.4	2.4	2.4	2.6	2.4	2.4	2.4	2.6	1.9
82.5°	1.7	1.4	1.4	1.4	1.7	1.4	1.4	1.4	1.4	1.4	1.4
85°	0.7	0.9	0.7	0.5	0.7	0.7	0.9	0.7	0.7	0.7	0.9
87.5°	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.5	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: P245520

CATALOG NUMBER: LSR8B10D010 EC8B109730 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1
2.5°	446.3	445.8	445.8	445.6	446.0	445.6	445.8	445.6	445.6	446.0	445.6
5°	447.9	448.2	447.7	447.5	448.2	448.2	448.2	447.7	447.7	447.9	447.7
7.5°	450.3	450.8	451.0	451.2	451.7	452.0	452.0	451.7	451.5	452.2	451.2
10°	452.9	453.6	455.0	455.7	456.9	456.9	457.4	457.4	456.9	457.4	457.2
12.5°	452.0	456.2	458.6	460.2	461.9	463.3	463.8	464.0	463.8	464.7	463.8
15°	453.6	457.2	460.9	463.8	466.8	468.5	469.0	470.9	471.3	471.6	470.1
17.5°	451.0	457.4	461.4	465.7	470.1	473.2	476.1	477.2	477.5	477.9	476.1
20°	445.1	452.2	458.3	464.5	469.7	474.4	476.8	480.1	479.1	481.0	478.4
22.5°	437.1	445.1	452.9	460.9	466.4	472.0	477.0	479.4	480.5	480.5	477.7
25°	424.3	433.8	442.3	450.5	458.8	465.7	471.3	474.9	475.6	475.3	472.0
27.5°	404.5	414.6	424.5	434.0	444.2	452.2	458.8	463.1	464.2	464.2	460.7
30°	377.1	387.9	397.6	409.0	419.4	428.3	437.5	441.3	443.4	443.4	439.4
32.5°	344.5	353.7	362.6	373.8	385.1	395.3	404.0	409.2	411.8	411.6	408.0
35°	309.0	313.5	320.4	328.6	338.8	348.2	356.7	361.7	366.2	366.0	362.6
37.5°	273.6	272.4	273.1	276.2	282.6	289.2	295.8	300.5	304.3	306.0	305.2
40°	238.9	232.7	226.8	224.7	225.1	227.5	231.1	234.6	238.9	241.0	241.9
42.5°	207.7	197.3	186.9	179.1	174.6	173.2	174.8	176.0	178.6	181.7	184.8
45°	182.6	168.7	155.0	142.9	135.4	130.9	129.9	130.9	132.3	135.4	139.4
47.5°	162.1	145.8	130.4	116.9	105.8	99.9	98.3	97.8	99.2	102.1	107.5
50°	143.9	127.6	110.6	95.0	83.4	76.8	74.4	73.5	75.1	77.3	82.2
52.5°	124.0	108.0	90.5	75.4	63.3	56.5	53.9	52.4	53.4	56.2	61.2
55°	102.5	87.6	71.8	56.2	44.7	38.3	35.2	34.3	35.2	38.3	43.2
57.5°	81.0	68.5	55.3	40.6	30.2	23.9	20.8	19.8	22.4	23.6	28.8
60°	63.3	53.2	41.8	29.8	20.8	15.8	12.8	12.0	13.2	15.4	19.6
62.5°	47.5	41.1	32.1	21.3	15.4	10.2	8.5	7.8	8.5	10.2	13.5
65°	34.5	29.5	22.4	15.6	10.4	7.6	5.7	5.2	5.9	7.1	9.9
67.5°	23.6	19.8	15.6	10.9	7.1	4.7	4.0	4.0	4.3	5.2	7.3
70°	15.4	13.0	9.9	7.1	4.7	3.5	3.1	2.6	3.1	3.8	5.0
72.5°	9.7	8.3	6.4	5.0	3.5	2.6	2.1	1.9	2.4	2.8	3.8
75°	5.9	4.5	3.3	2.6	1.9	1.9	1.9	0.9	1.2	1.9	2.4
77.5°	3.5	3.1	2.6	2.1	1.7	0.9	0.9	0.9	1.2	1.4	2.1
80°	1.9	1.7	1.2	1.2	0.9	0.7	0.9	0.7	0.5	1.2	1.4
82.5°	1.2	0.9	0.9	0.9	1.2	0.5	0.7	0.5	0.7	0.9	0.7
85°	0.7	0.7	0.7	0.5	1.2	0.5	0.5	0.2	0.2	0.5	0.5
87.5°	0.0	0.2	0.2	0.0	0.2	0.0	0.2	0.2	0.2	0.2	0.2
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: P245520

CATALOG NUMBER: LSR8B10D010 EC8B109730 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1	445.1
2.5°	445.8	445.6	445.8	445.6	445.6	445.6	445.8	445.8	445.6	445.6	446.0
5°	447.7	447.7	447.7	447.5	447.2	447.2	447.7	447.7	447.0	447.7	447.7
7.5°	451.7	451.0	451.7	450.8	450.3	450.5	450.8	450.3	449.8	450.1	450.1
10°	456.9	456.2	456.2	455.5	454.8	454.3	453.8	452.7	451.5	451.2	450.3
12.5°	463.1	461.9	461.2	459.7	458.6	456.9	455.5	453.6	451.2	449.6	447.9
15°	469.2	467.3	465.7	463.3	460.7	457.9	454.8	451.7	447.9	444.6	441.8
17.5°	474.2	471.6	468.5	464.7	460.9	456.7	452.2	447.7	442.3	438.0	434.7
20°	475.8	472.0	468.0	463.1	458.1	452.2	446.5	440.6	434.5	430.0	426.2
22.5°	473.7	469.2	464.2	459.0	452.4	446.0	439.4	432.6	427.1	421.0	417.5
25°	467.8	462.3	456.9	450.8	444.4	437.3	430.2	423.1	416.5	413.2	408.7
27.5°	455.7	449.8	443.9	437.5	430.2	423.1	415.8	409.0	403.3	398.8	396.2
30°	434.5	427.6	420.8	413.9	407.5	400.2	393.4	387.7	382.0	378.5	375.9
32.5°	401.9	395.7	388.9	382.3	376.4	370.2	364.5	359.6	355.6	353.2	351.3
35°	357.9	351.8	346.6	341.9	336.9	334.3	330.8	327.9	326.3	325.3	325.1
37.5°	302.6	299.1	297.4	296.5	295.6	294.8	295.3	296.5	297.4	299.1	301.0
40°	243.6	246.6	247.6	250.9	254.0	258.0	262.5	267.7	271.9	277.4	281.1
42.5°	189.7	195.4	202.0	209.1	216.6	224.0	232.9	241.2	248.8	255.6	261.5
45°	145.8	154.5	164.4	174.6	184.8	195.4	206.3	216.4	225.4	232.7	238.9
47.5°	113.6	123.3	136.1	148.6	160.9	173.4	185.5	196.1	203.6	210.7	216.2
50°	90.0	101.1	115.1	129.5	142.9	156.2	168.9	178.8	186.4	192.1	196.1
52.5°	69.7	82.9	97.1	112.2	126.6	141.0	152.9	162.1	168.2	173.2	176.2
55°	52.0	65.0	80.1	95.7	110.3	124.3	135.4	143.4	148.8	151.7	153.3
57.5°	37.6	49.4	64.5	80.1	93.3	106.6	115.5	122.9	125.9	127.6	128.3
60°	27.4	38.3	51.7	65.2	77.7	88.4	96.2	101.1	103.5	104.4	104.2
62.5°	20.1	29.5	41.1	52.4	62.6	71.3	77.5	80.8	82.0	82.5	81.7
65°	15.4	22.7	32.6	41.3	49.1	55.5	60.0	62.1	62.8	62.6	62.1
67.5°	11.3	17.0	24.3	31.0	36.6	41.6	43.9	45.8	46.3	45.6	44.9
70°	8.0	12.5	17.7	22.2	26.5	29.3	31.9	32.1	32.1	31.9	31.4
72.5°	5.7	8.7	12.0	15.1	17.7	19.8	20.8	21.5	21.3	21.0	20.6
75°	3.8	5.4	8.7	9.5	11.8	12.5	13.5	13.5	13.7	13.0	13.0
77.5°	2.4	3.8	5.2	6.1	7.1	8.0	8.5	8.5	8.7	8.5	8.5
80°	1.4	2.4	2.8	4.3	4.3	5.0	5.2	5.4	5.0	5.7	5.0
82.5°	0.9	1.4	2.1	2.1	2.6	3.1	3.1	3.3	3.3	3.1	3.1
85°	0.7	0.9	1.2	1.4	1.4	1.7	1.4	1.4	1.7	1.9	1.7
87.5°	0.2	0.5	0.2	0.5	0.5	0.9	0.7	0.7	0.7	0.9	0.9
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: P245520

CATALOG NUMBER: LSR8B10D010 EC8B109730 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	445.1	445.1	445.1	445.1
2.5°	445.6	445.8	445.6	445.6
5°	447.7	447.5	447.7	447.2
7.5°	449.4	449.4	449.1	449.1
10°	449.4	448.4	448.4	448.4
12.5°	445.8	444.6	443.9	443.4
15°	439.7	437.5	436.6	436.4
17.5°	431.6	429.7	428.6	427.9
20°	422.4	420.5	419.1	419.4
22.5°	414.4	412.3	411.3	410.8
25°	406.4	403.8	403.1	402.6
27.5°	393.4	391.9	391.2	390.5
30°	373.5	372.8	371.6	373.3
32.5°	350.6	349.4	348.5	349.2
35°	325.3	324.6	325.3	324.8
37.5°	302.2	302.9	303.8	304.3
40°	284.0	286.6	287.5	288.0
42.5°	265.8	268.9	270.7	271.9
45°	243.3	246.4	248.5	250.0
47.5°	220.2	222.8	224.9	224.7
50°	199.2	200.6	201.5	202.5
52.5°	177.9	177.9	178.1	178.1
55°	153.8	153.3	153.1	153.3
57.5°	127.3	126.9	126.6	125.9
60°	103.2	101.8	100.9	100.9
62.5°	80.8	79.1	78.4	78.2
65°	60.7	60.5	59.1	58.8
67.5°	43.9	43.0	42.1	42.3
70°	31.0	29.5	29.5	29.1
72.5°	20.1	19.4	19.1	19.1
75°	12.5	12.5	12.0	13.0
77.5°	8.3	8.3	8.0	8.3
80°	5.0	5.0	5.0	4.7
82.5°	3.1	3.3	3.1	3.1
85°	1.7	1.9	1.4	2.1
87.5°	0.9	1.2	0.9	1.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)