

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: P245516

Luminaire Tested: **LD8B20D010 ER8B209727 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245516
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: LD8B20D010 ER8B209727 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1561.0 lumens
Efficiency: N/A
Efficacy: 73.3 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

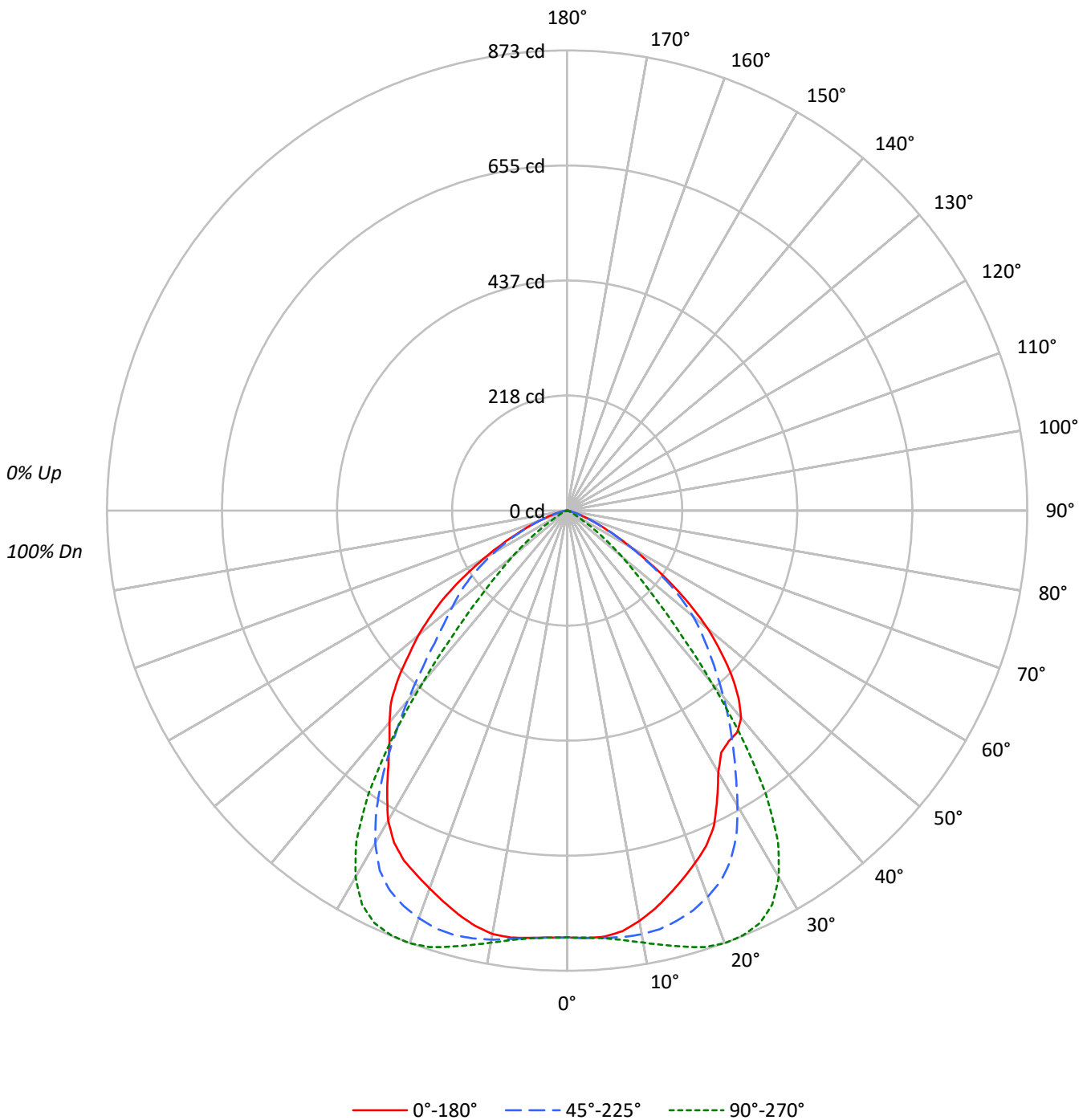
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245516

CATALOG NUMBER: LD8B20D010 ER8B209727 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	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	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°	77.9	5.0
10°-20°	230.7	14.8
20°-30°	352.0	22.5
30°-40°	367.3	23.5
40°-50°	275.9	17.7
50°-60°	169.7	10.9
60°-70°	69.1	4.4
70°-80°	16.3	1.0
80°-90°	2.2	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°	660.5	42.3
0°-40°	1027.8	65.8
0°-60°	1473.4	94.4
0°-90°	1561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1561.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	810	810	810	810	810	
5°	812	814	814	814	814	77
15°	753	806	857	833	794	212
25°	659	733	864	796	732	300
35°	534	549	658	608	591	337
45°	441	382	238	356	455	336
55°	238	226	62	226	279	214
65°	74	75	10	101	107	78
75°	13	13	2	23	24	16
85°	1	1	0	3	4	2
90°	0	0	0	0	0	



TEST NUMBER: P245516

CATALOG NUMBER: LD8B20D010 ER8B209727 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8
2.5°	811.9	810.7	811.9	811.9	812.4	811.5	811.9	812.4	811.5	811.5	811.5
5°	811.5	810.7	811.5	811.1	811.9	811.9	812.8	812.8	813.7	813.7	815.0
7.5°	804.6	802.9	804.6	805.9	806.8	808.5	810.7	812.4	814.1	815.8	818.0
10°	790.5	790.5	791.7	794.3	796.9	799.9	803.8	808.1	812.4	816.2	820.1
12.5°	772.8	771.5	774.1	777.6	781.4	786.2	792.2	798.6	805.5	813.2	819.3
15°	752.6	751.3	754.3	757.8	762.5	769.4	776.7	785.3	795.2	805.5	815.4
17.5°	732.0	731.6	734.6	739.3	743.2	750.5	759.9	770.2	781.4	795.2	808.1
20°	710.9	710.5	713.5	717.4	722.5	729.4	738.9	750.9	764.2	779.7	794.8
22.5°	689.0	689.4	692.0	696.3	700.6	707.9	717.8	729.9	744.5	761.2	778.0
25°	659.4	657.2	660.6	664.9	672.2	678.3	687.7	700.6	715.7	733.3	753.1
27.5°	616.4	615.9	619.0	622.8	629.3	636.6	646.9	660.2	676.1	695.5	714.8
30°	573.4	574.2	575.5	579.4	583.7	591.0	601.3	612.5	627.5	646.0	666.7
32.5°	544.2	544.2	545.9	548.5	551.5	555.3	562.6	570.8	582.4	595.3	610.4
35°	534.3	532.6	534.3	534.7	535.1	536.0	537.3	539.9	543.7	549.3	554.9
37.5°	530.0	528.7	528.7	527.0	524.8	522.2	518.8	514.9	510.6	505.0	500.8
40°	513.2	512.4	511.5	509.8	505.0	499.9	494.3	485.3	475.4	461.6	447.9
42.5°	481.0	480.1	479.7	476.2	471.9	465.9	459.5	450.0	437.6	419.9	400.2
45°	441.0	439.3	438.0	435.0	432.0	426.8	420.8	412.2	399.7	381.7	358.0
47.5°	394.6	393.7	393.3	392.0	389.0	386.0	382.1	375.2	364.1	346.9	322.4
50°	347.7	346.0	346.9	346.4	345.2	343.0	340.4	335.7	327.1	311.6	289.3
52.5°	294.0	294.0	293.6	294.9	295.3	294.9	295.3	290.1	282.8	271.2	252.3
55°	238.1	238.1	239.4	241.1	242.9	243.3	242.9	240.7	235.5	226.1	209.3
57.5°	185.7	184.8	187.4	190.0	191.7	193.4	192.1	190.4	187.4	179.7	166.8
60°	141.4	141.4	143.1	144.9	146.6	148.3	147.9	147.4	144.9	139.7	129.4
62.5°	104.0	104.4	104.4	105.7	107.5	109.2	110.5	109.2	107.9	104.4	97.6
65°	74.4	73.9	74.4	75.7	76.9	78.7	79.5	79.1	77.8	75.2	70.1
67.5°	49.9	49.4	51.1	51.6	52.4	54.2	53.7	54.2	53.7	51.6	47.3
70°	32.7	31.8	32.7	32.2	33.5	34.0	34.8	35.2	34.8	33.5	32.2
72.5°	20.2	19.8	20.2	20.6	21.1	21.5	22.3	22.3	21.9	21.1	19.3
75°	12.9	11.6	12.0	11.2	12.0	12.0	12.9	13.3	12.9	12.9	12.0
77.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	8.2	8.6	7.7	7.3
80°	3.9	3.9	4.3	4.3	4.3	4.7	4.3	4.3	4.3	4.7	3.4
82.5°	3.0	2.6	2.6	2.6	3.0	2.6	2.6	2.6	2.6	2.6	2.6
85°	1.3	1.7	1.3	0.9	1.3	1.3	1.7	1.3	1.3	1.3	1.7
87.5°	0.4	0.4	0.0	0.0	0.0	0.4	0.0	0.4	0.4	0.9	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: P245516

CATALOG NUMBER: LD8B20D010 ER8B209727 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8
2.5°	811.9	811.1	811.1	810.7	811.5	810.7	811.1	810.7	810.7	811.5	810.7
5°	815.0	815.4	814.5	814.1	815.4	815.4	815.4	814.5	814.5	815.0	814.5
7.5°	819.3	820.1	820.5	821.0	821.8	822.3	822.3	821.8	821.4	822.7	821.0
10°	824.0	825.3	827.8	829.1	831.3	831.3	832.2	832.2	831.3	832.2	831.7
12.5°	822.3	830.0	834.3	837.3	840.3	842.9	843.8	844.2	843.8	845.5	843.8
15°	825.3	831.7	838.6	843.8	849.3	852.3	853.2	856.6	857.5	857.9	855.4
17.5°	820.5	832.2	839.5	847.2	855.4	860.9	866.1	868.3	868.7	869.5	866.1
20°	809.8	822.7	833.9	845.0	854.5	863.1	867.4	873.4	871.7	875.1	870.4
22.5°	795.2	809.8	824.0	838.6	848.5	858.8	867.8	872.1	874.3	874.3	869.1
25°	772.0	789.2	804.6	819.7	834.7	847.2	857.5	864.0	865.2	864.8	858.8
27.5°	735.9	754.3	772.4	789.6	808.1	822.7	834.7	842.5	844.6	844.6	838.2
30°	686.0	705.8	723.4	744.0	762.9	779.3	796.0	802.9	806.8	806.8	799.5
32.5°	626.7	643.5	659.8	680.0	700.6	719.1	735.0	744.5	749.2	748.8	742.3
35°	562.2	570.4	582.9	597.9	616.4	633.6	649.0	658.1	666.2	665.8	659.8
37.5°	497.7	495.6	496.9	502.5	514.1	526.1	538.1	546.7	553.6	556.6	555.3
40°	434.6	423.4	412.6	408.8	409.6	413.9	420.4	426.8	434.6	438.4	440.1
42.5°	377.8	358.9	340.0	325.8	317.6	315.1	318.1	320.2	324.9	330.5	336.1
45°	332.3	306.9	282.0	260.0	246.3	238.1	236.4	238.1	240.7	246.3	253.6
47.5°	294.9	265.2	237.3	212.8	192.6	181.8	178.8	178.0	180.5	185.7	195.6
50°	261.8	232.1	201.2	172.8	151.7	139.7	135.4	133.7	136.7	140.6	149.6
52.5°	225.7	196.4	164.6	137.1	115.2	102.7	98.0	95.4	97.1	102.3	111.3
55°	186.5	159.5	130.7	102.3	81.2	69.6	64.0	62.3	64.0	69.6	78.7
57.5°	147.4	124.6	100.6	73.9	55.0	43.4	37.8	36.1	40.8	43.0	52.4
60°	115.2	96.7	76.1	54.2	37.8	28.8	23.2	21.9	24.1	27.9	35.7
62.5°	86.4	74.8	58.5	38.7	27.9	18.5	15.5	14.2	15.5	18.5	24.5
65°	62.8	53.7	40.8	28.4	18.9	13.8	10.3	9.5	10.7	12.9	18.1
67.5°	43.0	36.1	28.4	19.8	12.9	8.6	7.3	7.3	7.7	9.5	13.3
70°	27.9	23.6	18.1	12.9	8.6	6.4	5.6	4.7	5.6	6.9	9.0
72.5°	17.6	15.0	11.6	9.0	6.4	4.7	3.9	3.4	4.3	5.2	6.9
75°	10.7	8.2	6.0	4.7	3.4	3.4	3.4	1.7	2.1	3.4	4.3
77.5°	6.4	5.6	4.7	3.9	3.0	1.7	1.7	1.7	2.1	2.6	3.9
80°	3.4	3.0	2.1	2.1	1.7	1.3	1.7	1.3	0.9	2.1	2.6
82.5°	2.1	1.7	1.7	1.7	2.1	0.9	1.3	0.9	1.3	1.7	1.3
85°	1.3	1.3	1.3	0.9	2.1	0.9	0.9	0.4	0.4	0.9	0.9
87.5°	0.0	0.4	0.4	0.0	0.4	0.0	0.4	0.4	0.4	0.4	0.4
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: P245516

CATALOG NUMBER: LD8B20D010 ER8B209727 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8
2.5°	811.1	810.7	811.1	810.7	810.7	810.7	811.1	811.1	810.7	810.7	811.5
5°	814.5	814.5	814.5	814.1	813.7	813.7	814.5	814.5	813.2	814.5	814.5
7.5°	821.8	820.5	821.8	820.1	819.3	819.7	820.1	819.3	818.4	818.8	818.8
10°	831.3	830.0	830.0	828.7	827.4	826.6	825.7	823.5	821.4	821.0	819.3
12.5°	842.5	840.3	839.0	836.4	834.3	831.3	828.7	825.3	821.0	818.0	815.0
15°	853.6	850.2	847.2	842.9	838.2	833.0	827.4	821.8	815.0	808.9	803.8
17.5°	862.7	857.9	852.3	845.5	838.6	830.9	822.7	814.5	804.6	796.9	790.9
20°	865.7	858.8	851.5	842.5	833.4	822.7	812.4	801.6	790.5	782.3	775.4
22.5°	861.8	853.6	844.6	835.2	823.1	811.5	799.5	787.0	777.1	766.0	759.5
25°	851.1	841.2	831.3	820.1	808.5	795.6	782.7	769.8	757.8	751.8	743.6
27.5°	829.1	818.4	807.6	796.0	782.7	769.8	756.5	744.0	733.7	725.5	720.8
30°	790.5	778.0	765.5	753.1	741.5	728.1	715.7	705.3	695.0	688.6	683.9
32.5°	731.1	720.0	707.5	695.5	684.7	673.5	663.2	654.2	646.9	642.6	639.2
35°	651.2	640.0	630.6	622.0	612.9	608.2	601.8	596.6	593.6	591.9	591.4
37.5°	550.6	544.2	541.2	539.4	537.7	536.4	537.3	539.4	541.2	544.2	547.6
40°	443.2	448.7	450.5	456.5	462.1	469.4	477.5	487.0	494.7	504.6	511.5
42.5°	345.2	355.5	367.5	380.4	394.2	407.5	423.8	438.9	452.6	465.1	475.8
45°	265.2	281.1	299.2	317.6	336.1	355.5	375.2	393.7	410.1	423.4	434.6
47.5°	206.7	224.4	247.6	270.4	292.7	315.5	337.4	356.8	370.5	383.4	393.3
50°	163.8	184.0	209.3	235.5	260.0	284.1	307.3	325.4	339.1	349.5	356.8
52.5°	126.8	150.9	176.7	204.2	230.4	256.6	278.1	294.9	306.0	315.1	320.6
55°	94.6	118.2	145.7	174.1	200.7	226.1	246.3	260.9	270.8	275.9	279.0
57.5°	68.3	89.8	117.3	145.7	169.8	193.9	210.2	223.5	229.1	232.1	233.4
60°	49.9	69.6	94.1	118.6	141.4	160.8	174.9	184.0	188.3	190.0	189.6
62.5°	36.5	53.7	74.8	95.4	113.9	129.8	141.0	147.0	149.2	150.0	148.7
65°	27.9	41.3	59.3	75.2	89.4	101.0	109.2	113.0	114.3	113.9	113.0
67.5°	20.6	31.0	44.3	56.3	66.6	75.7	80.0	83.4	84.2	83.0	81.7
70°	14.6	22.8	32.2	40.4	48.1	53.3	58.0	58.5	58.5	58.0	57.2
72.5°	10.3	15.9	21.9	27.5	32.2	36.1	37.8	39.1	38.7	38.3	37.4
75°	6.9	9.9	15.9	17.2	21.5	22.8	24.5	24.5	24.9	23.6	23.6
77.5°	4.3	6.9	9.5	11.2	12.9	14.6	15.5	15.5	15.9	15.5	15.5
80°	2.6	4.3	5.2	7.7	7.7	9.0	9.5	9.9	9.0	10.3	9.0
82.5°	1.7	2.6	3.9	3.9	4.7	5.6	5.6	6.0	6.0	5.6	5.6
85°	1.3	1.7	2.1	2.6	2.6	3.0	2.6	2.6	3.0	3.4	3.0
87.5°	0.4	0.9	0.4	0.9	0.9	1.7	1.3	1.3	1.3	1.7	1.7
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: P245516

CATALOG NUMBER: LD8B20D010 ER8B209727 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	809.8	809.8	809.8	809.8
2.5°	810.7	811.1	810.7	810.7
5°	814.5	814.1	814.5	813.7
7.5°	817.5	817.5	817.1	817.1
10°	817.5	815.8	815.8	815.8
12.5°	811.1	808.9	807.6	806.8
15°	799.9	796.0	794.3	793.9
17.5°	785.3	781.9	779.7	778.4
20°	768.5	765.1	762.5	762.9
22.5°	753.9	750.1	748.3	747.5
25°	739.3	734.6	733.3	732.4
27.5°	715.7	713.1	711.8	710.5
30°	679.6	678.3	676.1	679.1
32.5°	637.9	635.7	634.0	635.3
35°	591.9	590.6	591.9	591.0
37.5°	549.8	551.0	552.8	553.6
40°	516.7	521.4	523.1	524.0
42.5°	483.6	489.1	492.6	494.7
45°	442.7	448.3	452.2	454.8
47.5°	400.6	405.3	409.2	408.8
50°	362.3	364.9	366.6	368.4
52.5°	323.7	323.7	324.1	324.1
55°	279.8	279.0	278.5	279.0
57.5°	231.7	230.8	230.4	229.1
60°	187.8	185.3	183.5	183.5
62.5°	147.0	144.0	142.7	142.3
65°	110.5	110.0	107.5	107.0
67.5°	80.0	78.2	76.5	76.9
70°	56.3	53.7	53.7	52.9
72.5°	36.5	35.2	34.8	34.8
75°	22.8	22.8	21.9	23.6
77.5°	15.0	15.0	14.6	15.0
80°	9.0	9.0	9.0	8.6
82.5°	5.6	6.0	5.6	5.6
85°	3.0	3.4	2.6	3.9
87.5°	1.7	2.1	1.7	2.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)