

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: HALO COMMERCIAL

Report Number: P238329

Luminaire Tested: **PRS615D010-S6M12-61SWWC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-25)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SWWC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WALL WASH DISTRIBUTION, WW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 982.6 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.94 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

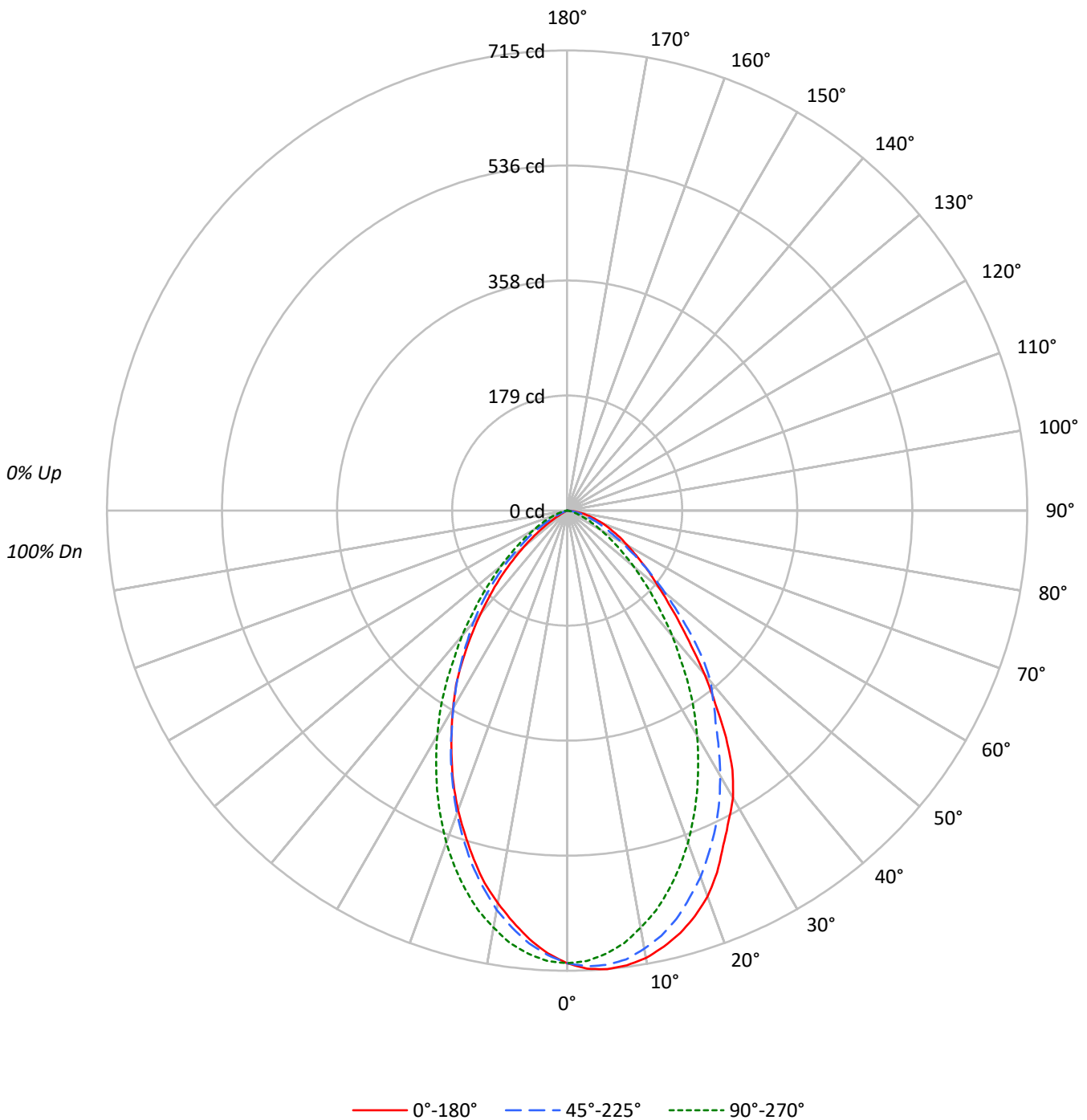
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238329

CATALOG NUMBER: PRS615D010-S6M12-61SWWC

Luminous Intensity Polar Plot





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CATALOG NUMBER: PRS615D010-S6M12-61SWWC

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	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					100			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	73	68	78	72	67	75	71	67	73	69	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	60	58					58			
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	63	58	54	52					52			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30281	30281	30281
5°	30915	29878	28897
10°	30862	28768	27080
15°	30279	27190	24997
20°	29232	25145	22703
25°	27274	22718	20186
30°	25629	20066	17615
35°	22612	17224	14843
40°	18643	14299	11753
45°	15082	11435	8841
50°	12492	9009	5888
55°	10697	6898	3198
60°	9291	5158	921
65°	8273	3800	0
70°	7541	2518	0
75°	6421	1547	0
80°	5604	992	0
85°	3952	642	0



TEST NUMBER: P238329

CATALOG NUMBER: PRS615D010-S6M12-61SWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	6.6
10°-20°	171.8	17.5
20°-30°	223.2	22.7
30°-40°	214.6	21.8
40°-50°	157.9	16.1
50°-60°	90.6	9.2
60°-70°	41.1	4.2
70°-80°	15.3	1.6
80°-90°	2.9	0.3
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°	460.1	46.8
0°-40°	674.7	68.7
0°-60°	923.3	94.0
0°-90°	982.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	982.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	703	703	703	703	703	
5°	715	709	691	675	669	68
15°	679	657	610	570	561	191
25°	574	545	478	428	425	265
35°	430	402	328	286	282	266
45°	248	272	188	168	145	193
55°	142	140	92	75	43	129
65°	81	65	37	16	0	81
75°	39	27	9	0	0	42
85°	8	4	1	0	0	10
90°	0	0	0	0	0	



TEST NUMBER: P238329

CATALOG NUMBER: PRS615D010-S6M12-61SWWC

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3
2.5°	712.6	712.6	712.6	711.3	711.3	712.6	711.3	711.3	709.9	709.9	708.6
5°	715.3	715.3	715.3	715.3	713.9	713.9	713.9	712.6	711.3	709.9	708.6
7.5°	712.6	712.6	712.6	712.6	711.3	711.3	709.9	708.6	707.3	704.6	703.3
10°	705.9	705.9	705.9	704.6	703.3	701.9	701.9	699.3	696.6	694.0	691.3
12.5°	694.0	694.0	692.6	692.6	690.0	690.0	688.6	686.0	683.3	680.6	676.6
15°	679.3	678.0	678.0	676.6	674.0	672.6	671.3	667.3	663.3	659.3	656.7
17.5°	660.7	659.3	658.0	656.7	652.7	650.0	648.7	644.7	640.7	636.7	631.4
20°	638.0	636.7	635.3	632.7	630.0	627.4	624.7	620.7	615.4	610.0	606.0
22.5°	608.7	607.4	606.0	604.7	600.7	598.1	596.7	592.7	587.4	582.1	575.4
25°	574.1	574.1	575.4	571.4	568.7	566.1	566.1	562.1	556.8	550.1	544.8
27.5°	543.4	543.4	540.8	538.1	534.1	531.5	530.1	526.1	523.5	518.1	511.5
30°	515.5	514.1	511.5	508.8	504.8	500.8	496.8	491.5	486.2	480.8	475.5
32.5°	478.2	476.8	476.8	476.8	472.8	471.5	468.9	462.2	455.5	446.2	438.2
35°	430.2	428.9	427.6	428.9	431.6	432.9	434.2	431.6	424.9	414.2	402.3
37.5°	378.3	379.6	380.9	382.3	386.3	388.9	387.6	392.9	391.6	384.9	373.0
40°	331.7	331.7	333.0	337.0	341.0	342.3	343.6	349.0	349.0	350.3	346.3
42.5°	285.0	289.0	290.4	293.0	297.0	299.7	302.4	307.7	309.0	314.3	311.7
45°	247.7	250.4	253.1	255.7	259.7	262.4	263.7	267.7	271.7	274.4	271.7
47.5°	214.4	215.8	217.1	219.8	223.8	225.1	227.8	231.8	235.8	234.4	231.8
50°	186.5	187.8	187.8	191.8	194.5	195.8	195.8	201.1	201.1	201.1	198.5
52.5°	163.8	163.8	165.2	166.5	169.2	169.2	171.8	174.5	171.8	170.5	167.8
55°	142.5	142.5	143.9	145.2	145.2	146.5	147.8	147.8	145.2	142.5	139.9
57.5°	123.9	125.2	125.2	126.5	127.9	126.5	127.9	125.2	122.5	119.9	115.9
60°	107.9	109.2	109.2	110.6	110.6	110.6	109.2	106.6	102.6	99.9	95.9
62.5°	94.6	94.6	94.6	94.6	94.6	94.6	93.2	90.6	86.6	83.9	79.9
65°	81.2	81.2	81.2	81.2	79.9	79.9	78.6	75.9	71.9	69.3	65.3
67.5°	69.3	69.3	69.3	69.3	67.9	66.6	65.3	63.9	59.9	57.3	54.6
70°	59.9	58.6	58.6	57.3	55.9	54.6	54.6	51.9	49.3	46.6	44.0
72.5°	48.0	48.0	48.0	48.0	45.3	45.3	44.0	41.3	38.6	37.3	34.6
75°	38.6	38.6	38.6	37.3	36.0	36.0	34.6	33.3	30.6	29.3	26.6
77.5°	30.6	30.6	30.6	29.3	28.0	26.6	26.6	25.3	22.6	21.3	20.0
80°	22.6	22.6	21.3	20.0	20.0	18.6	18.6	17.3	16.0	14.7	13.3
82.5°	14.7	14.7	14.7	13.3	13.3	12.0	12.0	12.0	10.7	9.3	8.0
85°	8.0	8.0	8.0	6.7	6.7	6.7	6.7	6.7	5.3	5.3	4.0
87.5°	1.3	1.3	1.3	1.3	1.3	2.7	1.3	1.3	1.3	1.3	1.3
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: P238329

CATALOG NUMBER: PRS615D010-S6M12-61SWWC

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3
2.5°	708.6	707.3	705.9	705.9	704.6	704.6	703.3	701.9	700.6	700.6	699.3
5°	707.3	705.9	703.3	701.9	700.6	699.3	698.0	695.3	694.0	691.3	690.0
7.5°	700.6	698.0	695.3	692.6	691.3	690.0	686.0	683.3	680.6	678.0	675.3
10°	688.6	686.0	682.0	679.3	676.6	674.0	671.3	666.0	662.0	658.0	654.0
12.5°	672.6	668.6	664.7	659.3	658.0	655.3	651.3	646.0	642.0	636.7	631.4
15°	652.7	646.0	643.3	636.7	634.0	631.4	627.4	622.0	616.7	610.0	604.7
17.5°	626.0	619.4	616.7	610.0	607.4	604.7	598.1	592.7	587.4	580.7	574.1
20°	599.4	594.1	587.4	580.7	578.1	575.4	567.4	562.1	556.8	548.8	543.4
22.5°	568.7	562.1	555.4	550.1	546.1	543.4	536.8	530.1	522.1	514.1	507.5
25°	538.1	530.1	523.5	516.8	511.5	508.8	500.8	492.8	484.8	478.2	470.2
27.5°	503.5	496.8	488.8	479.5	475.5	471.5	463.5	454.2	447.5	440.9	432.9
30°	467.5	460.9	451.5	443.5	439.5	435.6	427.6	419.6	412.9	403.6	395.6
32.5°	431.6	424.9	416.9	408.9	406.2	400.9	391.6	384.9	375.6	366.3	359.6
35°	396.9	391.6	383.6	374.3	367.6	362.3	353.0	342.3	334.3	327.7	321.0
37.5°	365.0	357.0	346.3	334.3	327.7	322.3	310.3	302.4	295.7	287.7	285.0
40°	331.7	318.3	306.4	294.4	289.0	282.4	273.1	265.1	259.7	254.4	247.7
42.5°	299.7	282.4	269.1	258.4	251.7	247.7	237.1	231.8	225.1	218.4	215.8
45°	263.7	250.4	234.4	223.8	218.4	214.4	205.1	198.5	191.8	187.8	183.8
47.5°	227.8	217.1	202.5	190.5	186.5	182.5	175.8	167.8	162.5	158.5	154.5
50°	191.8	183.8	175.8	162.5	158.5	157.2	149.2	142.5	137.2	134.5	130.5
52.5°	162.5	155.8	147.8	138.5	134.5	130.5	125.2	118.5	115.9	111.9	109.2
55°	134.5	127.9	123.9	117.2	111.9	109.2	103.9	99.9	95.9	91.9	89.2
57.5°	110.6	106.6	102.6	97.2	94.6	91.9	86.6	82.6	78.6	74.6	71.9
60°	91.9	87.9	83.9	79.9	77.3	75.9	70.6	66.6	62.6	59.9	57.3
62.5°	75.9	73.3	69.3	65.3	62.6	61.3	57.3	53.3	49.3	48.0	45.3
65°	62.6	59.9	55.9	51.9	51.9	49.3	45.3	42.6	40.0	37.3	34.6
67.5°	51.9	48.0	45.3	42.6	40.0	38.6	36.0	33.3	30.6	28.0	26.6
70°	41.3	38.6	36.0	32.0	30.6	29.3	26.6	24.0	22.6	20.0	18.6
72.5°	32.0	29.3	26.6	24.0	22.6	21.3	20.0	17.3	16.0	14.7	13.3
75°	25.3	22.6	20.0	17.3	17.3	16.0	14.7	12.0	10.7	9.3	9.3
77.5°	17.3	16.0	14.7	12.0	12.0	10.7	9.3	8.0	8.0	6.7	5.3
80°	12.0	10.7	9.3	8.0	6.7	6.7	5.3	5.3	4.0	4.0	2.7
82.5°	8.0	6.7	5.3	4.0	4.0	4.0	2.7	2.7	2.7	1.3	1.3
85°	4.0	2.7	2.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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: P238329

CATALOG NUMBER: PRS615D010-S6M12-61SWWC

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3
2.5°	698.0	696.6	695.3	695.3	695.3	694.0	692.6	691.3	691.3	690.0	690.0
5°	687.3	684.6	683.3	682.0	682.0	679.3	678.0	676.6	675.3	674.0	672.6
7.5°	671.3	668.6	666.0	663.3	663.3	660.7	658.0	656.7	654.0	652.7	651.3
10°	651.3	648.7	644.7	642.0	639.3	638.0	634.0	631.4	630.0	626.0	624.7
12.5°	626.0	622.0	618.0	615.4	614.0	610.0	606.0	604.7	600.7	598.1	596.7
15°	599.4	594.1	588.7	587.4	584.7	580.7	576.7	572.7	570.1	566.1	566.1
17.5°	568.7	562.1	558.1	554.1	552.8	547.4	542.1	539.4	535.5	532.8	531.5
20°	535.5	528.8	523.5	520.8	516.8	512.8	507.5	504.8	500.8	498.2	496.8
22.5°	499.5	491.5	486.2	483.5	480.8	474.2	470.2	467.5	463.5	460.9	459.5
25°	462.2	456.9	450.2	446.2	443.5	436.9	432.9	430.2	427.6	424.9	423.6
27.5°	424.9	416.9	410.2	407.6	404.9	400.9	394.3	390.3	388.9	387.6	386.3
30°	387.6	380.9	374.3	370.3	366.3	362.3	358.3	354.3	353.0	350.3	347.6
32.5°	353.0	346.3	339.7	337.0	334.3	327.7	323.7	321.0	319.7	314.3	313.0
35°	317.0	311.7	307.7	305.0	303.7	298.4	295.7	289.0	286.4	283.7	282.4
37.5°	279.7	274.4	270.4	270.4	267.7	265.1	262.4	259.7	254.4	253.1	251.7
40°	243.7	239.8	237.1	234.4	234.4	233.1	230.4	230.4	226.4	223.8	219.8
42.5°	210.5	207.8	205.1	205.1	203.8	202.5	199.8	199.8	197.1	194.5	190.5
45°	179.8	175.8	174.5	174.5	173.2	171.8	170.5	170.5	167.8	165.2	162.5
47.5°	151.8	149.2	147.8	146.5	145.2	145.2	143.9	142.5	141.2	138.5	135.9
50°	127.9	125.2	123.9	122.5	122.5	121.2	119.9	117.2	117.2	113.2	110.6
52.5°	106.6	105.2	102.6	101.2	99.9	98.6	97.2	95.9	93.2	90.6	89.2
55°	86.6	83.9	82.6	81.2	79.9	78.6	77.3	75.9	74.6	70.6	67.9
57.5°	69.3	66.6	65.3	65.3	63.9	61.3	59.9	58.6	55.9	53.3	49.3
60°	54.6	53.3	50.6	50.6	49.3	46.6	45.3	42.6	40.0	36.0	33.3
62.5°	42.6	41.3	38.6	37.3	37.3	34.6	32.0	29.3	26.6	24.0	20.0
65°	32.0	30.6	29.3	28.0	26.6	24.0	21.3	18.6	16.0	12.0	8.0
67.5°	24.0	22.6	20.0	20.0	18.6	16.0	13.3	10.7	6.7	4.0	1.3
70°	17.3	16.0	13.3	12.0	12.0	9.3	6.7	4.0	0.0	0.0	0.0
72.5°	12.0	10.7	8.0	6.7	6.7	4.0	1.3	0.0	0.0	0.0	0.0
75°	8.0	6.7	4.0	4.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.0	2.7	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	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: P238329

CATALOG NUMBER: PRS615D010-S6M12-61SWWC

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3
2.5°	690.0	688.6	688.6	688.6	687.3	688.6	688.6	688.6
5°	671.3	671.3	670.0	670.0	670.0	668.6	668.6	668.6
7.5°	648.7	648.7	647.3	647.3	647.3	646.0	644.7	644.7
10°	623.4	623.4	622.0	622.0	622.0	620.7	619.4	619.4
12.5°	594.1	594.1	594.1	592.7	592.7	592.7	591.4	592.7
15°	564.8	563.4	563.4	562.1	560.8	560.8	560.8	560.8
17.5°	530.1	528.8	528.8	527.5	528.8	527.5	527.5	527.5
20°	494.2	494.2	494.2	494.2	494.2	494.2	495.5	495.5
22.5°	459.5	458.2	459.5	458.2	458.2	459.5	459.5	460.9
25°	423.6	422.2	422.2	423.6	423.6	423.6	424.9	424.9
27.5°	383.6	386.3	386.3	387.6	387.6	388.9	390.3	388.9
30°	349.0	349.0	349.0	350.3	351.6	353.0	354.3	354.3
32.5°	311.7	313.0	314.3	313.0	314.3	317.0	319.7	321.0
35°	281.0	278.4	277.0	277.0	278.4	279.7	281.0	282.4
37.5°	247.7	246.4	245.1	242.4	243.7	245.1	245.1	245.1
40°	217.1	214.4	213.1	211.8	210.5	209.1	209.1	209.1
42.5°	187.8	185.1	182.5	182.5	178.5	177.2	177.2	175.8
45°	159.8	157.2	154.5	154.5	150.5	146.5	145.2	145.2
47.5°	133.2	129.2	127.9	126.5	122.5	118.5	115.9	114.5
50°	107.9	103.9	102.6	101.2	97.2	91.9	89.2	87.9
52.5°	85.2	81.2	78.6	77.3	71.9	67.9	65.3	63.9
55°	63.9	61.3	58.6	57.3	51.9	46.6	42.6	42.6
57.5°	46.6	41.3	40.0	38.6	33.3	29.3	25.3	24.0
60°	30.6	25.3	24.0	22.6	17.3	13.3	12.0	10.7
62.5°	16.0	12.0	10.7	9.3	6.7	4.0	2.7	2.7
65°	5.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)