

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: P238359

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-27)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SWWMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WALL WASH DISTRIBUTION, WW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 981.3 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.04 / 1.14
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

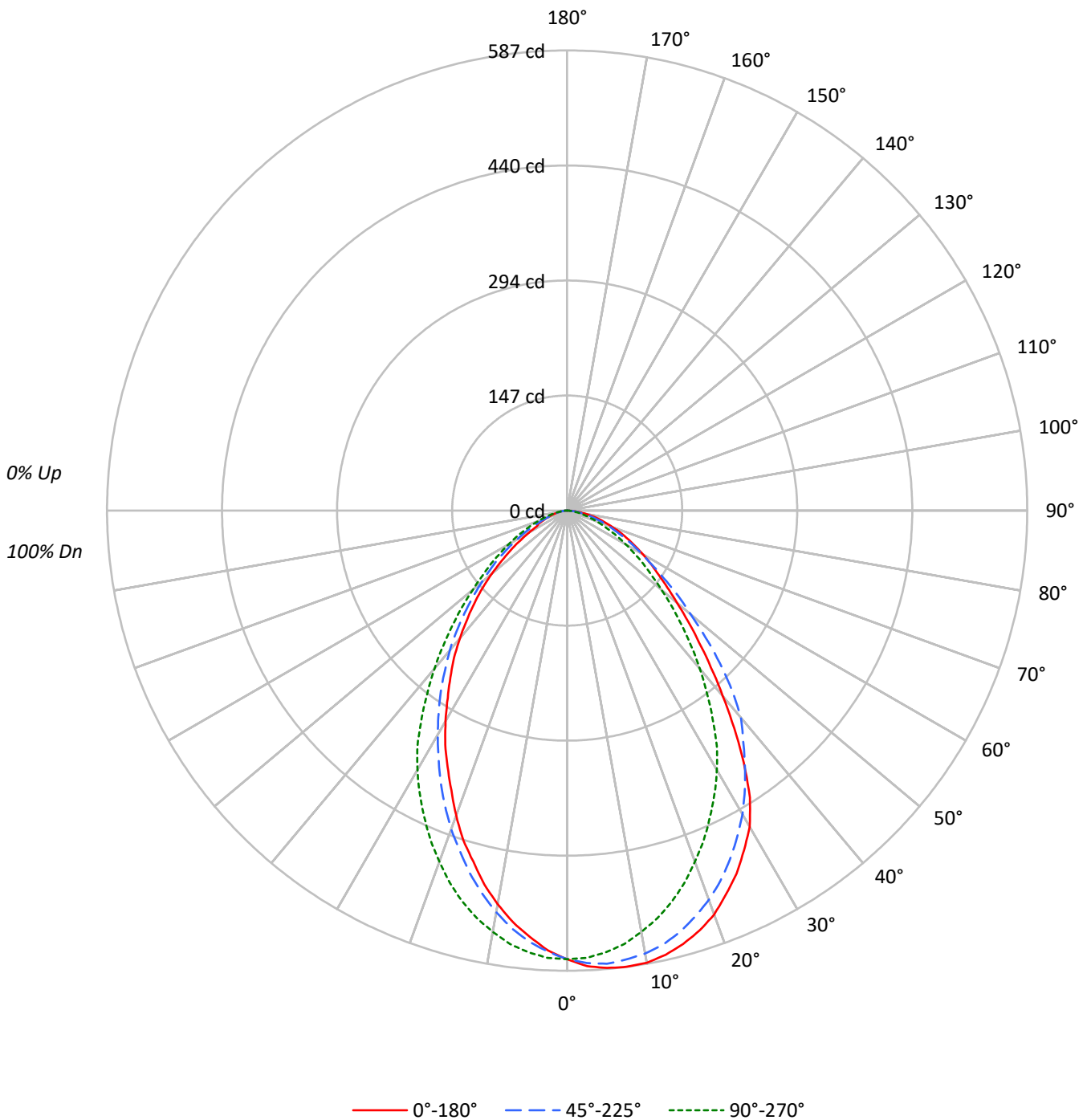
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238359

CATALOG NUMBER: PRS615D010-S6M12-61SWWMW

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	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	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68					68			
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60					60			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53					53			
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48					48			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43					43			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	39					39			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36					36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	24641	24641	24641
5°	25310	24445	23585
10°	25602	23858	22284
15°	25510	23018	20647
20°	25122	21833	18964
25°	24281	20485	17136
30°	23158	18992	15417
35°	20636	16998	13640
40°	17356	14810	11966
45°	14504	12562	10211
50°	12211	10516	8380
55°	10689	8895	6591
60°	9627	7449	4814
65°	8680	6103	4065
70°	7704	5023	3512
75°	7087	3993	3094
80°	5951	2975	2628
85°	4594	1976	1976



TEST NUMBER: P238359

CATALOG NUMBER: PRS615D010-S6M12-61SWWMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	5.4
10°-20°	145.3	14.8
20°-30°	199.7	20.3
30°-40°	206.9	21.1
40°-50°	166.9	17.0
50°-60°	110.8	11.3
60°-70°	62.6	6.4
70°-80°	28.7	2.9
80°-90°	7.0	0.7
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°	398.4	40.6
0°-40°	605.2	61.7
0°-60°	883.0	90.0
0°-90°	981.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	981.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	572	572	572	572	572	
5°	586	580	566	552	546	56
15°	572	556	516	479	463	161
25°	511	491	431	382	361	235
35°	393	395	323	281	260	244
45°	238	276	206	185	168	185
55°	142	150	118	106	88	129
65°	85	78	60	48	40	85
75°	43	35	24	17	19	45
85°	9	7	4	5	4	11
90°	0	0	0	0	0	



TEST NUMBER: P238359

CATALOG NUMBER: PRS615D010-S6M12-61SWWMW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3
2.5°	581.6	580.3	580.3	580.3	580.3	580.3	580.3	580.3	579.0	579.0	577.6
5°	585.6	585.6	585.6	585.6	584.3	584.3	584.3	582.9	581.6	580.3	580.3
7.5°	586.9	586.9	586.9	585.6	585.6	585.6	584.3	582.9	581.6	580.3	577.6
10°	585.6	585.6	584.3	584.3	582.9	581.6	581.6	580.3	579.0	576.3	573.6
12.5°	580.3	580.3	580.3	579.0	577.6	577.6	576.3	573.6	572.3	569.6	567.0
15°	572.3	572.3	572.3	571.0	569.6	568.3	568.3	565.6	563.0	560.3	556.3
17.5°	561.7	561.7	561.7	560.3	557.7	557.7	556.3	553.7	551.0	548.3	543.0
20°	548.3	547.0	547.0	545.7	543.0	543.0	541.7	539.0	536.4	532.4	528.4
22.5°	529.7	531.0	529.7	528.4	527.0	525.7	524.4	521.7	519.1	515.1	511.1
25°	511.1	509.7	509.7	509.7	508.4	505.8	504.4	503.1	499.1	495.1	491.1
27.5°	488.5	485.8	485.8	487.1	485.8	484.5	483.1	480.5	477.8	473.8	469.8
30°	465.8	464.5	464.5	463.2	460.5	459.2	459.2	456.5	455.2	451.2	447.2
32.5°	433.9	435.2	436.5	437.9	436.5	436.5	436.5	432.6	428.6	425.9	421.9
35°	392.6	394.0	396.6	399.3	404.6	405.9	407.3	408.6	404.6	400.6	395.3
37.5°	350.0	352.7	354.0	358.0	362.0	366.0	367.3	372.7	376.7	375.3	368.7
40°	308.8	310.1	314.1	315.4	322.1	326.1	328.7	334.1	342.0	344.7	344.7
42.5°	271.5	272.8	274.2	278.2	283.5	288.8	290.1	295.5	304.8	308.8	311.4
45°	238.2	239.6	242.2	243.6	248.9	251.5	254.2	262.2	267.5	274.2	275.5
47.5°	209.0	209.0	210.3	214.3	218.3	220.9	222.3	228.9	234.2	238.2	239.6
50°	182.3	183.7	185.0	186.3	189.0	191.7	194.3	199.6	203.6	206.3	205.0
52.5°	161.0	162.4	162.4	163.7	166.4	169.0	170.4	173.0	175.7	177.0	178.3
55°	142.4	142.4	143.7	145.1	146.4	147.7	147.7	150.4	150.4	151.7	150.4
57.5°	126.4	126.4	126.4	127.8	127.8	129.1	129.1	129.1	129.1	129.1	127.8
60°	111.8	110.5	111.8	111.8	113.1	113.1	113.1	111.8	110.5	110.5	109.1
62.5°	97.2	97.2	97.2	98.5	98.5	97.2	97.2	97.2	94.5	94.5	93.2
65°	85.2	83.8	85.2	85.2	85.2	83.8	83.8	82.5	81.2	79.9	78.5
67.5°	73.2	73.2	73.2	73.2	71.9	71.9	71.9	69.2	67.9	66.5	65.2
70°	61.2	62.6	61.2	61.2	61.2	59.9	59.9	58.6	57.2	55.9	54.6
72.5°	51.9	51.9	51.9	50.6	50.6	49.2	49.2	47.9	46.6	45.3	43.9
75°	42.6	42.6	42.6	41.3	39.9	39.9	39.9	38.6	37.3	35.9	34.6
77.5°	33.3	33.3	31.9	31.9	30.6	30.6	30.6	29.3	27.9	26.6	26.6
80°	24.0	24.0	24.0	24.0	22.6	22.6	22.6	21.3	20.0	20.0	18.6
82.5°	16.0	17.3	16.0	16.0	14.6	14.6	14.6	14.6	13.3	13.3	13.3
85°	9.3	9.3	9.3	9.3	8.0	9.3	8.0	8.0	8.0	8.0	6.7
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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: P238359

CATALOG NUMBER: PRS615D010-S6M12-61SWWMW

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3
2.5°	577.6	576.3	576.3	575.0	575.0	573.6	573.6	572.3	572.3	571.0	569.6
5°	577.6	576.3	575.0	575.0	573.6	572.3	571.0	569.6	567.0	565.6	564.3
7.5°	576.3	575.0	572.3	569.6	568.3	567.0	565.6	563.0	560.3	557.7	555.0
10°	572.3	569.6	565.6	563.0	561.7	559.0	556.3	553.7	549.7	545.7	543.0
12.5°	564.3	560.3	556.3	552.3	551.0	548.3	544.4	540.4	536.4	532.4	528.4
15°	552.3	548.3	544.4	540.4	537.7	536.4	531.0	525.7	521.7	516.4	511.1
17.5°	539.0	535.0	529.7	524.4	521.7	519.1	515.1	508.4	504.4	497.8	493.8
20°	524.4	519.1	512.4	507.1	504.4	501.8	495.1	489.8	483.1	476.5	472.5
22.5°	505.8	499.1	493.8	488.5	484.5	481.8	475.1	468.5	461.8	455.2	448.5
25°	484.5	479.1	472.5	467.2	463.2	459.2	452.5	445.9	437.9	431.2	424.6
27.5°	464.5	457.8	451.2	443.2	440.5	435.2	428.6	421.9	413.9	407.3	399.3
30°	440.5	433.9	425.9	419.2	416.6	412.6	404.6	396.6	390.0	382.0	375.3
32.5°	416.6	409.9	403.3	395.3	391.3	386.0	378.0	370.0	362.0	355.4	347.4
35°	391.3	384.6	376.7	368.7	363.3	358.0	348.7	339.4	331.4	323.4	319.4
37.5°	364.7	356.7	348.7	336.7	331.4	326.1	316.8	308.8	300.8	292.8	288.8
40°	335.4	326.1	316.8	306.1	300.8	294.1	286.2	278.2	270.2	263.5	258.2
42.5°	306.1	294.1	284.8	272.8	268.8	263.5	255.5	246.2	239.6	234.2	228.9
45°	272.8	264.9	254.2	243.6	238.2	234.2	226.3	218.3	211.6	206.3	202.3
47.5°	238.2	234.2	223.6	212.9	210.3	205.0	197.0	190.3	185.0	181.0	177.0
50°	206.3	203.6	197.0	186.3	182.3	178.3	171.7	166.4	161.0	157.0	154.4
52.5°	177.0	174.4	170.4	162.4	158.4	154.4	149.1	143.7	139.7	135.8	134.4
55°	150.4	147.7	143.7	138.4	135.8	131.8	127.8	123.8	119.8	118.5	115.8
57.5°	127.8	123.8	121.1	117.1	115.8	113.1	109.1	106.5	103.8	101.2	98.5
60°	107.8	105.1	102.5	99.8	98.5	97.2	93.2	90.5	87.8	86.5	83.8
62.5°	91.8	89.2	86.5	83.8	82.5	81.2	78.5	75.9	73.2	73.2	70.5
65°	77.2	74.5	73.2	70.5	69.2	67.9	65.2	63.9	61.2	59.9	58.6
67.5°	63.9	62.6	61.2	57.2	57.2	55.9	53.2	51.9	50.6	49.2	47.9
70°	51.9	50.6	49.2	47.9	46.6	45.3	43.9	42.6	39.9	39.9	38.6
72.5°	42.6	41.3	38.6	37.3	37.3	35.9	34.6	33.3	31.9	30.6	30.6
75°	33.3	31.9	30.6	29.3	27.9	27.9	26.6	25.3	25.3	24.0	22.6
77.5°	25.3	24.0	22.6	21.3	21.3	20.0	20.0	18.6	18.6	17.3	17.3
80°	17.3	17.3	16.0	16.0	14.6	14.6	13.3	13.3	13.3	12.0	12.0
82.5°	12.0	10.6	10.6	10.6	9.3	9.3	9.3	9.3	8.0	8.0	8.0
85°	6.7	6.7	5.3	5.3	5.3	5.3	5.3	5.3	5.3	4.0	4.0
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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: P238359

CATALOG NUMBER: PRS615D010-S6M12-61SWWMW

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3
2.5°	569.6	568.3	567.0	567.0	567.0	565.6	565.6	564.3	563.0	563.0	561.7
5°	561.7	560.3	559.0	557.7	557.7	555.0	555.0	553.7	552.3	551.0	549.7
7.5°	552.3	549.7	548.3	545.7	545.7	544.4	540.4	539.0	537.7	535.0	533.7
10°	540.4	536.4	533.7	532.4	529.7	528.4	524.4	523.1	520.4	519.1	516.4
12.5°	524.4	520.4	516.4	515.1	513.7	509.7	507.1	503.1	500.4	497.8	495.1
15°	507.1	503.1	497.8	496.4	495.1	489.8	485.8	483.1	479.1	476.5	473.8
17.5°	487.1	481.8	476.5	475.1	472.5	467.2	464.5	460.5	455.2	452.5	449.9
20°	465.8	460.5	455.2	453.8	451.2	445.9	440.5	436.5	432.6	429.9	425.9
22.5°	441.9	436.5	429.9	427.2	425.9	419.2	415.3	411.3	407.3	401.9	399.3
25°	419.2	412.6	407.3	403.3	400.6	395.3	391.3	384.6	382.0	376.7	374.0
27.5°	394.0	387.3	382.0	378.0	375.3	371.3	364.7	359.4	355.4	351.4	348.7
30°	368.7	362.0	356.7	352.7	350.0	344.7	338.1	335.4	330.1	326.1	322.1
32.5°	342.0	335.4	328.7	327.4	323.4	318.1	314.1	308.8	304.8	300.8	296.8
35°	311.4	307.4	302.1	300.8	298.1	292.8	288.8	284.8	280.8	275.5	271.5
37.5°	282.2	276.8	274.2	271.5	270.2	267.5	263.5	259.5	255.5	251.5	250.2
40°	252.9	248.9	244.9	244.9	243.6	240.9	238.2	235.6	232.9	228.9	226.3
42.5°	224.9	220.9	219.6	216.9	215.6	214.3	211.6	210.3	209.0	206.3	203.6
45°	198.3	195.6	193.0	191.7	190.3	189.0	189.0	186.3	185.0	183.7	181.0
47.5°	173.0	171.7	170.4	169.0	167.7	167.7	165.0	163.7	162.4	162.4	159.7
50°	151.7	150.4	149.1	147.7	146.4	146.4	145.1	143.7	142.4	141.1	138.4
52.5°	133.1	131.8	129.1	129.1	129.1	127.8	126.4	125.1	123.8	122.4	121.1
55°	114.5	113.1	111.8	111.8	110.5	110.5	109.1	107.8	106.5	105.1	103.8
57.5°	98.5	97.2	95.8	95.8	94.5	94.5	93.2	91.8	89.2	87.8	86.5
60°	83.8	82.5	81.2	81.2	79.9	78.5	78.5	75.9	74.5	73.2	70.5
62.5°	69.2	67.9	67.9	66.5	66.5	66.5	65.2	62.6	61.2	58.6	57.2
65°	57.2	55.9	55.9	54.6	54.6	53.2	51.9	50.6	47.9	46.6	43.9
67.5°	46.6	46.6	45.3	43.9	43.9	42.6	41.3	38.6	37.3	34.6	33.3
70°	37.3	35.9	35.9	34.6	33.3	31.9	30.6	29.3	27.9	27.9	27.9
72.5°	29.3	27.9	27.9	26.6	26.6	24.0	22.6	22.6	22.6	22.6	22.6
75°	22.6	21.3	20.0	20.0	18.6	18.6	17.3	17.3	17.3	17.3	18.6
77.5°	16.0	16.0	14.6	14.6	13.3	13.3	13.3	13.3	13.3	13.3	14.6
80°	12.0	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
82.5°	8.0	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	8.0
85°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.3	4.0	4.0
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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: P238359

CATALOG NUMBER: PRS615D010-S6M12-61SWWMW

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	572.3	572.3	572.3	572.3	572.3	572.3	572.3	572.3
2.5°	561.7	561.7	561.7	561.7	561.7	560.3	561.7	561.7
5°	549.7	548.3	548.3	547.0	547.0	547.0	547.0	545.7
7.5°	532.4	531.0	531.0	531.0	529.7	529.7	528.4	529.7
10°	513.7	512.4	511.1	512.4	509.7	509.7	509.7	509.7
12.5°	493.8	492.4	491.1	489.8	489.8	488.5	488.5	488.5
15°	471.1	469.8	468.5	467.2	467.2	464.5	464.5	463.2
17.5°	447.2	445.9	444.5	443.2	440.5	440.5	439.2	440.5
20°	421.9	419.2	417.9	417.9	416.6	415.3	413.9	413.9
22.5°	396.6	394.0	394.0	391.3	390.0	388.6	387.3	386.0
25°	370.0	367.3	367.3	364.7	363.3	362.0	362.0	360.7
27.5°	344.7	340.7	340.7	339.4	336.7	335.4	335.4	336.7
30°	319.4	316.8	315.4	312.8	311.4	310.1	308.8	310.1
32.5°	294.1	290.1	288.8	288.8	287.5	286.2	284.8	283.5
35°	268.8	267.5	264.9	263.5	260.9	260.9	259.5	259.5
37.5°	246.2	242.2	240.9	239.6	238.2	236.9	235.6	236.9
40°	222.3	219.6	216.9	216.9	214.3	212.9	211.6	212.9
42.5°	201.0	198.3	197.0	194.3	191.7	190.3	190.3	189.0
45°	179.7	175.7	175.7	171.7	170.4	169.0	167.7	167.7
47.5°	158.4	155.7	153.1	153.1	149.1	147.7	146.4	146.4
50°	138.4	134.4	133.1	131.8	129.1	126.4	125.1	125.1
52.5°	118.5	115.8	113.1	113.1	110.5	107.8	106.5	105.1
55°	101.2	98.5	97.2	94.5	93.2	89.2	87.8	87.8
57.5°	83.8	81.2	79.9	78.5	75.9	73.2	70.5	70.5
60°	69.2	66.5	66.5	63.9	61.2	58.6	55.9	55.9
62.5°	54.6	51.9	51.9	50.6	47.9	46.6	45.3	43.9
65°	42.6	39.9	39.9	39.9	39.9	39.9	38.6	39.9
67.5°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
70°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
72.5°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
75°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
77.5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
80°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
82.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
85°	4.0	5.3	5.3	5.3	5.3	5.3	4.0	4.0
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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