

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: P238343

Luminaire Tested: **PRS610D010-S6M12-61SWWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-26)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-61SWWH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WALL WASH DISTRIBUTION, WW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 722.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 0.98 / 1.08
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

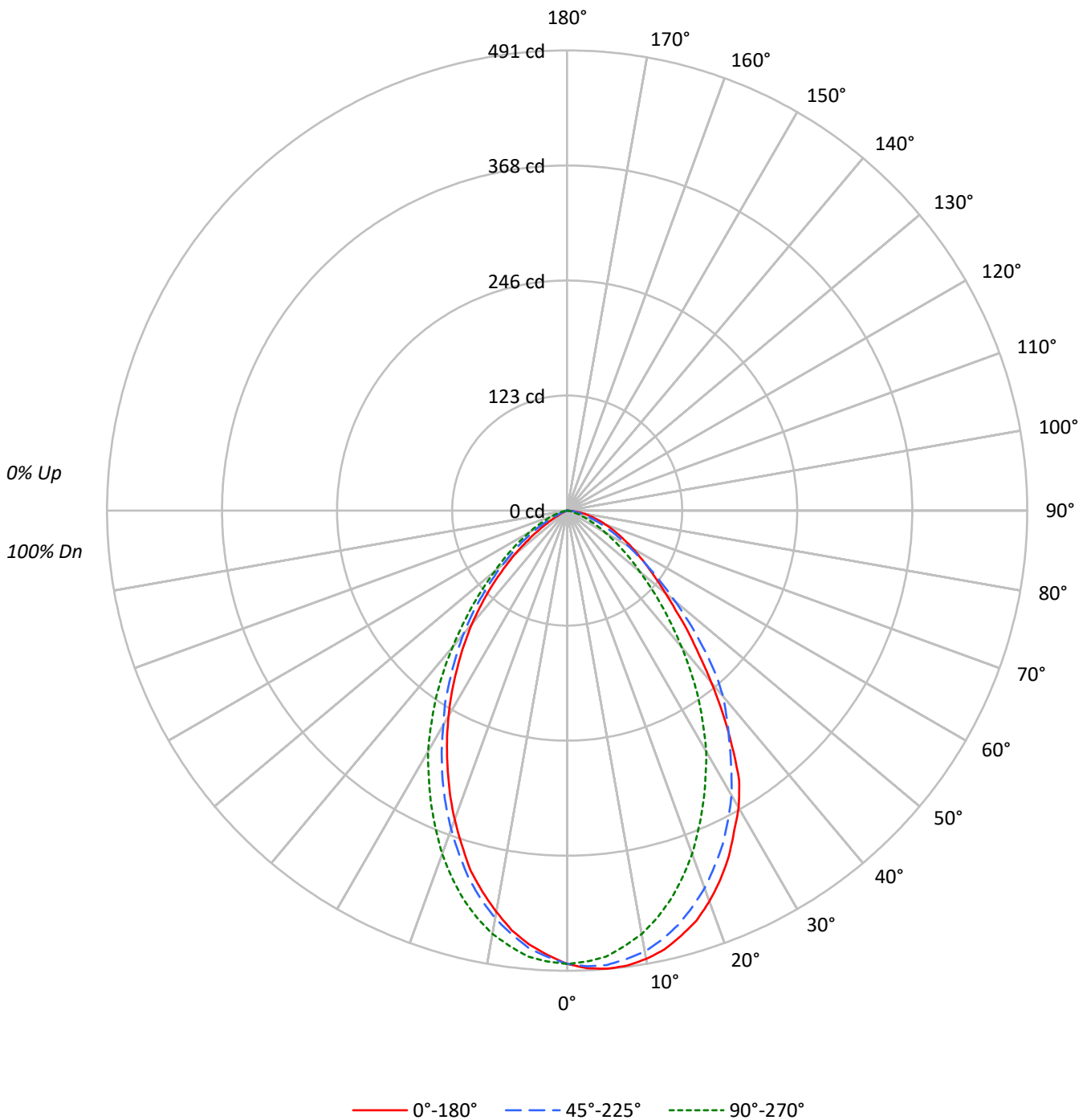
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	93	89	85	89	86	83	87	84	81	80					80			
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57					57			
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	61	54	49	60	54	49	59	53	49	57	52	48	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43					43			
9	65	54	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20826	20826	20826
5°	21208	20646	20084
10°	21235	20054	19009
15°	20937	19114	17732
20°	20330	17860	16073
25°	19373	16333	14338
30°	18186	14756	12573
35°	16126	12820	10717
40°	13427	10673	8875
45°	11076	8640	6935
50°	9170	6759	4890
55°	7874	5330	2928
60°	6975	4047	1292
65°	6113	2954	408
70°	5539	2014	252
75°	4824	1331	166
80°	4215	744	0
85°	2964	494	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	6.2
10°-20°	120.8	16.7
20°-30°	161.0	22.3
30°-40°	158.9	22.0
40°-50°	119.2	16.5
50°-60°	70.0	9.7
60°-70°	32.6	4.5
70°-80°	12.2	1.7
80°-90°	2.3	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°	326.8	45.3
0°-40°	485.8	67.3
0°-60°	674.9	93.5
0°-90°	722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	722.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	484	484	484	484	484	
5°	491	487	478	469	465	47
15°	470	458	429	406	398	132
25°	408	393	344	315	302	187
35°	307	302	244	217	204	191
45°	182	204	142	128	114	141
55°	105	107	71	59	39	95
65°	60	52	29	14	4	60
75°	29	21	8	1	1	31
85°	6	3	1	0	0	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7
2.5°	488.7	488.7	488.7	488.7	487.7	487.7	487.7	487.7	487.7	486.7	486.7
5°	490.7	490.7	489.7	489.7	489.7	489.7	488.7	488.7	487.7	487.7	486.7
7.5°	489.7	488.7	488.7	488.7	487.7	487.7	487.7	486.7	485.7	484.7	482.7
10°	485.7	485.7	485.7	484.7	483.7	483.7	483.7	481.7	480.7	478.7	477.7
12.5°	479.7	478.7	478.7	477.7	476.7	476.7	475.7	473.7	472.7	470.7	468.7
15°	469.7	469.7	469.7	468.7	467.7	466.7	465.7	464.7	462.7	460.7	457.7
17.5°	458.7	457.7	457.7	456.7	454.7	454.7	453.7	451.7	449.7	447.7	443.7
20°	443.7	443.7	443.7	442.7	441.7	439.8	439.8	436.8	434.8	431.8	428.8
22.5°	426.8	426.8	426.8	425.8	424.8	423.8	422.8	420.8	417.8	414.8	410.8
25°	407.8	406.8	406.8	406.8	405.8	404.8	403.8	401.8	399.8	396.8	392.8
27.5°	385.8	384.8	384.8	384.8	383.8	382.8	381.8	381.8	379.8	375.8	371.8
30°	365.8	365.8	365.8	363.8	361.8	360.8	360.8	358.8	355.8	353.8	350.8
32.5°	341.8	341.8	342.8	341.8	341.8	341.8	339.8	337.8	333.8	330.8	325.8
35°	306.8	308.8	309.8	311.8	313.8	315.8	316.8	316.8	312.8	307.8	301.8
37.5°	272.8	273.8	274.8	278.8	280.8	282.8	283.8	287.8	290.8	285.8	279.8
40°	238.9	239.9	242.9	243.9	248.9	249.9	252.9	256.9	260.9	261.9	258.9
42.5°	207.9	208.9	210.9	212.9	217.9	220.9	221.9	224.9	229.9	233.9	232.9
45°	181.9	181.9	182.9	185.9	188.9	190.9	193.9	197.9	201.9	203.9	203.9
47.5°	156.9	156.9	157.9	160.9	164.9	164.9	166.9	170.9	175.9	175.9	175.9
50°	136.9	137.9	137.9	139.9	141.9	142.9	144.9	148.9	150.9	150.9	149.9
52.5°	119.9	119.9	120.9	121.9	122.9	124.9	124.9	126.9	128.9	128.9	126.9
55°	104.9	104.9	104.9	105.9	106.9	107.9	108.9	109.9	108.9	107.9	106.9
57.5°	91.9	91.9	91.9	91.9	92.9	93.9	93.9	93.9	92.9	91.9	88.9
60°	81.0	81.0	81.0	81.0	81.0	81.0	81.0	80.0	78.0	77.0	75.0
62.5°	70.0	70.0	70.0	70.0	70.0	70.0	69.0	68.0	67.0	64.0	62.0
65°	60.0	61.0	61.0	60.0	60.0	59.0	59.0	57.0	56.0	54.0	52.0
67.5°	52.0	52.0	52.0	52.0	51.0	50.0	50.0	48.0	47.0	45.0	42.0
70°	44.0	44.0	43.0	43.0	43.0	42.0	41.0	40.0	38.0	36.0	34.0
72.5°	36.0	36.0	36.0	36.0	34.0	34.0	33.0	32.0	30.0	29.0	27.0
75°	29.0	29.0	29.0	28.0	28.0	27.0	26.0	25.0	24.0	22.0	21.0
77.5°	23.0	23.0	23.0	22.0	21.0	21.0	20.0	19.0	18.0	17.0	15.0
80°	17.0	17.0	16.0	16.0	15.0	15.0	15.0	14.0	13.0	12.0	11.0
82.5°	11.0	11.0	11.0	11.0	10.0	10.0	9.0	9.0	8.0	7.0	7.0
85°	6.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0	4.0	4.0	3.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7
2.5°	485.7	485.7	484.7	484.7	484.7	483.7	483.7	482.7	482.7	481.7	481.7
5°	485.7	484.7	483.7	482.7	481.7	481.7	480.7	478.7	477.7	477.7	475.7
7.5°	481.7	480.7	478.7	477.7	476.7	475.7	473.7	472.7	470.7	468.7	467.7
10°	475.7	473.7	470.7	468.7	468.7	466.7	464.7	462.7	459.7	458.7	455.7
12.5°	465.7	462.7	460.7	458.7	456.7	455.7	452.7	450.7	446.7	444.7	441.7
15°	454.7	451.7	448.7	444.7	443.7	441.7	438.8	434.8	432.8	428.8	425.8
17.5°	441.7	436.8	433.8	429.8	427.8	425.8	420.8	417.8	414.8	409.8	406.8
20°	424.8	420.8	416.8	411.8	409.8	406.8	402.8	397.8	393.8	389.8	385.8
22.5°	406.8	402.8	397.8	392.8	389.8	386.8	381.8	376.8	371.8	366.8	363.8
25°	386.8	381.8	376.8	371.8	367.8	365.8	359.8	354.8	348.8	343.8	339.8
27.5°	366.8	361.8	355.8	348.8	344.8	342.8	336.8	329.8	323.8	319.8	314.8
30°	344.8	338.8	331.8	325.8	321.8	318.8	313.8	306.8	301.8	296.8	289.8
32.5°	320.8	314.8	309.8	301.8	298.8	295.8	288.8	281.8	274.8	269.8	265.8
35°	296.8	292.8	286.8	278.8	273.8	269.8	260.9	254.9	248.9	243.9	239.9
37.5°	274.8	268.8	258.9	249.9	245.9	242.9	232.9	226.9	219.9	216.9	210.9
40°	250.9	241.9	232.9	223.9	219.9	215.9	208.9	199.9	194.9	189.9	185.9
42.5°	226.9	214.9	205.9	197.9	192.9	188.9	180.9	173.9	167.9	164.9	160.9
45°	199.9	190.9	180.9	171.9	168.9	163.9	156.9	150.9	145.9	141.9	138.9
47.5°	171.9	166.9	156.9	148.9	144.9	140.9	134.9	128.9	123.9	119.9	117.9
50°	146.9	142.9	135.9	126.9	123.9	119.9	113.9	109.9	104.9	100.9	98.9
52.5°	123.9	119.9	114.9	107.9	103.9	101.9	95.9	91.9	88.9	86.0	83.0
55°	103.9	99.9	95.9	89.9	87.0	84.0	80.0	76.0	73.0	71.0	69.0
57.5°	87.0	83.0	79.0	75.0	72.0	70.0	66.0	64.0	61.0	58.0	57.0
60°	72.0	69.0	66.0	62.0	60.0	57.0	54.0	51.0	49.0	47.0	45.0
62.5°	60.0	57.0	54.0	50.0	49.0	47.0	44.0	41.0	39.0	38.0	36.0
65°	49.0	46.0	44.0	41.0	39.0	38.0	35.0	33.0	31.0	29.0	27.0
67.5°	40.0	38.0	36.0	33.0	31.0	30.0	27.0	25.0	24.0	22.0	21.0
70°	32.0	30.0	28.0	26.0	24.0	23.0	21.0	19.0	18.0	16.0	15.0
72.5°	25.0	23.0	22.0	19.0	18.0	17.0	15.0	14.0	13.0	12.0	11.0
75°	19.0	18.0	16.0	14.0	13.0	13.0	11.0	10.0	9.0	8.0	7.0
77.5°	14.0	13.0	11.0	10.0	9.0	9.0	8.0	7.0	6.0	5.0	5.0
80°	10.0	8.0	7.0	6.0	6.0	5.0	5.0	4.0	3.0	3.0	2.0
82.5°	6.0	5.0	4.0	4.0	3.0	3.0	3.0	2.0	2.0	1.0	1.0
85°	3.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7
2.5°	480.7	479.7	479.7	479.7	478.7	478.7	477.7	477.7	476.7	476.7	476.7
5°	474.7	473.7	472.7	471.7	471.7	470.7	469.7	469.7	468.7	467.7	466.7
7.5°	465.7	464.7	463.7	461.7	460.7	459.7	458.7	456.7	455.7	454.7	454.7
10°	453.7	451.7	449.7	448.7	448.7	445.7	444.7	443.7	441.7	440.8	438.8
12.5°	438.8	436.8	434.8	432.8	431.8	429.8	428.8	426.8	424.8	422.8	420.8
15°	422.8	419.8	416.8	415.8	413.8	412.8	409.8	406.8	405.8	403.8	402.8
17.5°	402.8	398.8	397.8	395.8	393.8	391.8	389.8	386.8	383.8	382.8	379.8
20°	381.8	378.8	374.8	373.8	371.8	369.8	366.8	363.8	361.8	359.8	357.8
22.5°	358.8	356.8	351.8	350.8	348.8	345.8	342.8	339.8	338.8	335.8	333.8
25°	335.8	330.8	327.8	325.8	324.8	321.8	319.8	316.8	314.8	311.8	309.8
27.5°	309.8	306.8	303.8	300.8	299.8	297.8	294.8	291.8	289.8	286.8	284.8
30°	286.8	282.8	278.8	276.8	275.8	271.8	269.8	267.8	263.9	261.9	260.9
32.5°	260.9	256.9	253.9	253.9	250.9	248.9	244.9	242.9	241.9	237.9	235.9
35°	234.9	231.9	229.9	228.9	227.9	223.9	221.9	219.9	216.9	215.9	212.9
37.5°	208.9	204.9	202.9	201.9	200.9	199.9	198.9	195.9	193.9	191.9	189.9
40°	181.9	179.9	177.9	177.9	176.9	175.9	173.9	172.9	171.9	169.9	167.9
42.5°	158.9	155.9	154.9	153.9	153.9	151.9	151.9	150.9	149.9	147.9	145.9
45°	135.9	133.9	132.9	130.9	130.9	129.9	129.9	129.9	127.9	126.9	125.9
47.5°	115.9	113.9	112.9	111.9	110.9	109.9	109.9	109.9	107.9	107.9	105.9
50°	96.9	94.9	94.9	94.9	93.9	92.9	91.9	89.9	89.9	88.9	88.0
52.5°	82.0	80.0	79.0	78.0	78.0	77.0	76.0	75.0	73.0	72.0	71.0
55°	67.0	66.0	64.0	64.0	63.0	62.0	61.0	60.0	59.0	56.0	55.0
57.5°	55.0	53.0	52.0	51.0	51.0	50.0	48.0	47.0	45.0	43.0	41.0
60°	44.0	42.0	41.0	40.0	40.0	38.0	37.0	35.0	33.0	31.0	29.0
62.5°	34.0	33.0	31.0	30.0	30.0	29.0	27.0	25.0	23.0	21.0	18.0
65°	26.0	25.0	23.0	23.0	22.0	20.0	18.0	16.0	14.0	12.0	10.0
67.5°	19.0	18.0	17.0	16.0	15.0	13.0	11.0	9.0	7.0	5.0	3.0
70°	14.0	13.0	11.0	11.0	10.0	8.0	6.0	4.0	3.0	2.0	2.0
72.5°	9.0	8.0	7.0	6.0	5.0	4.0	2.0	1.0	1.0	1.0	1.0
75°	6.0	5.0	4.0	3.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	4.0	3.0	2.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0
80°	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	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°	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	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



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CATALOG NUMBER: PRS610D010-S6M12-61SWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	483.7	483.7	483.7	483.7	483.7	483.7	483.7	483.7
2.5°	475.7	475.7	475.7	475.7	475.7	475.7	475.7	474.7
5°	465.7	465.7	465.7	465.7	464.7	464.7	464.7	464.7
7.5°	453.7	452.7	451.7	451.7	451.7	450.7	450.7	451.7
10°	437.8	437.8	436.8	436.8	435.8	435.8	435.8	434.8
12.5°	419.8	418.8	418.8	416.8	417.8	416.8	415.8	416.8
15°	399.8	398.8	397.8	397.8	397.8	396.8	396.8	397.8
17.5°	378.8	376.8	375.8	376.8	374.8	374.8	374.8	373.8
20°	355.8	353.8	352.8	352.8	351.8	350.8	350.8	350.8
22.5°	331.8	330.8	328.8	328.8	327.8	327.8	326.8	326.8
25°	308.8	305.8	305.8	304.8	302.8	303.8	301.8	301.8
27.5°	282.8	281.8	281.8	280.8	278.8	277.8	276.8	277.8
30°	258.9	256.9	255.9	254.9	254.9	254.9	253.9	252.9
32.5°	234.9	232.9	230.9	230.9	230.9	228.9	228.9	228.9
35°	210.9	209.9	207.9	206.9	206.9	205.9	204.9	203.9
37.5°	187.9	185.9	184.9	182.9	182.9	180.9	179.9	180.9
40°	164.9	162.9	161.9	161.9	159.9	157.9	157.9	157.9
42.5°	143.9	140.9	140.9	138.9	136.9	135.9	133.9	134.9
45°	123.9	120.9	119.9	119.9	115.9	114.9	113.9	113.9
47.5°	103.9	102.9	100.9	98.9	95.9	92.9	91.9	91.9
50°	86.0	83.0	82.0	81.0	77.0	75.0	73.0	73.0
52.5°	69.0	66.0	64.0	63.0	60.0	57.0	56.0	55.0
55°	53.0	50.0	49.0	48.0	44.0	42.0	40.0	39.0
57.5°	39.0	37.0	35.0	33.0	30.0	28.0	26.0	25.0
60°	27.0	24.0	23.0	22.0	19.0	17.0	15.0	15.0
62.5°	17.0	14.0	13.0	12.0	10.0	8.0	8.0	8.0
65°	7.0	5.0	5.0	5.0	4.0	4.0	4.0	4.0
67.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0
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)