

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: P238344

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238344
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: PRS615D010-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: 961.3 lumens
Efficiency: N/A
Efficacy: 76.3 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

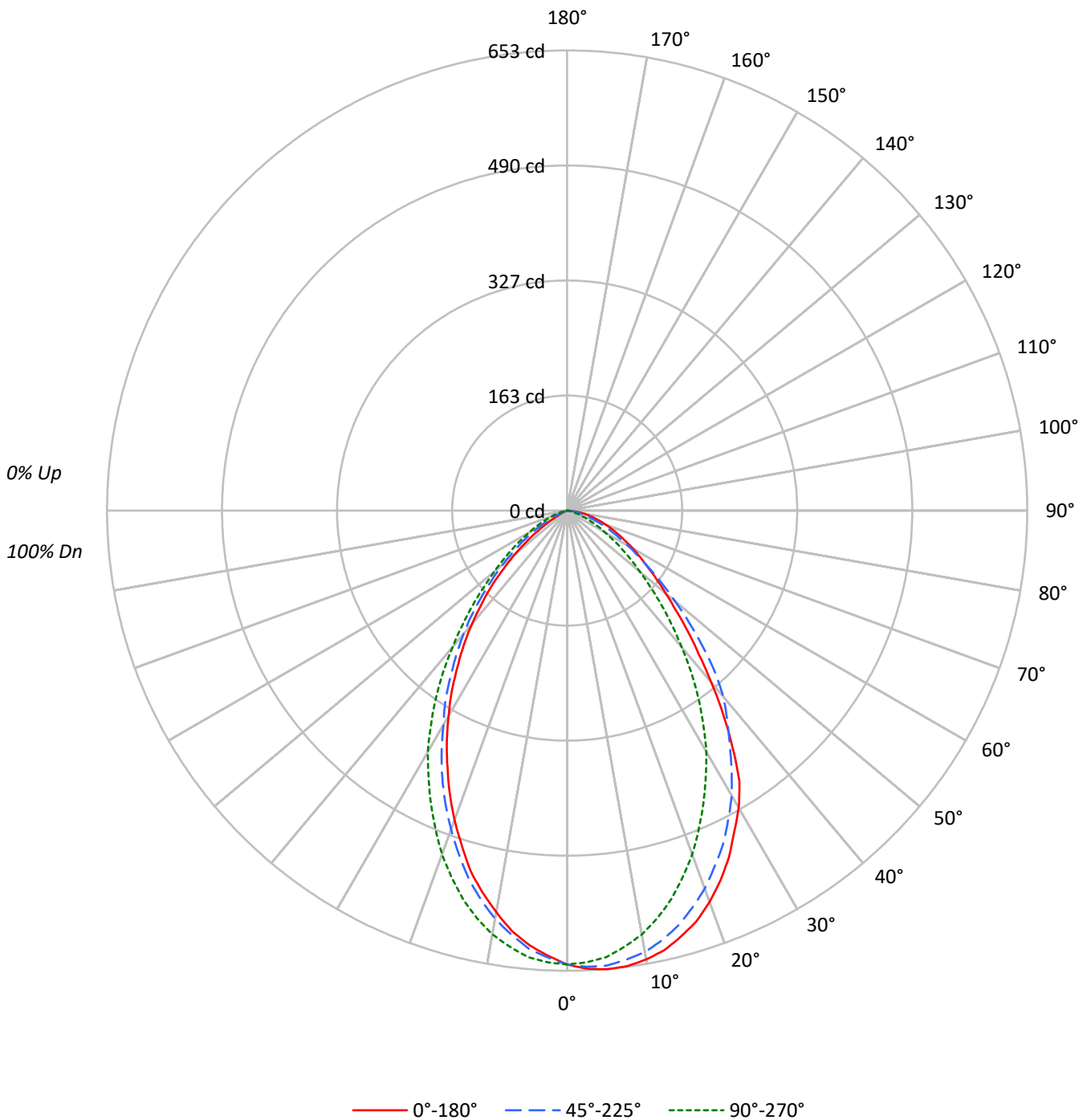
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	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°	27732	27732	27732
5°	28240	27492	26745
10°	28274	26704	25305
15°	27877	25448	23607
20°	27070	23780	21402
25°	25791	21749	19093
30°	24212	19648	16740
35°	21471	17067	14270
40°	17873	14209	11814
45°	14748	11508	9237
50°	12211	9002	6504
55°	10487	7094	3896
60°	9283	5382	1722
65°	8130	3933	540
70°	7377	2681	340
75°	6421	1763	216
80°	5604	992	0
85°	3952	642	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	6.2
10°-20°	160.9	16.7
20°-30°	214.4	22.3
30°-40°	211.6	22.0
40°-50°	158.7	16.5
50°-60°	93.1	9.7
60°-70°	43.4	4.5
70°-80°	16.3	1.7
80°-90°	3.1	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°	435.2	45.3
0°-40°	646.8	67.3
0°-60°	898.6	93.5
0°-90°	961.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	961.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	644	644	644	644	644	
5°	653	648	636	624	619	62
15°	625	610	571	540	530	176
25°	543	523	458	419	402	249
35°	408	402	325	289	272	254
45°	242	272	189	170	152	188
55°	140	142	94	78	52	126
65°	80	69	39	19	5	80
75°	39	28	11	1	1	42
85°	8	4	1	0	0	10
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°	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1
2.5°	650.7	650.7	650.7	650.7	649.4	649.4	649.4	649.4	649.4	648.0	648.0
5°	653.4	653.4	652.0	652.0	652.0	652.0	650.7	650.7	649.4	649.4	648.0
7.5°	652.0	650.7	650.7	650.7	649.4	649.4	649.4	648.0	646.7	645.4	642.7
10°	646.7	646.7	646.7	645.4	644.1	644.1	644.1	641.4	640.1	637.4	636.1
12.5°	638.7	637.4	637.4	636.1	634.7	634.7	633.4	630.7	629.4	626.8	624.1
15°	625.4	625.4	625.4	624.1	622.8	621.4	620.1	618.8	616.1	613.4	609.5
17.5°	610.8	609.5	609.5	608.1	605.5	605.5	604.1	601.5	598.8	596.1	590.8
20°	590.8	590.8	590.8	589.5	588.2	585.5	585.5	581.5	578.8	574.9	570.9
22.5°	568.2	568.2	568.2	566.9	565.5	564.2	562.9	560.2	556.2	552.2	546.9
25°	542.9	541.6	541.6	541.6	540.3	538.9	537.6	534.9	532.3	528.3	523.0
27.5°	513.6	512.3	512.3	512.3	511.0	509.7	508.3	508.3	505.7	500.3	495.0
30°	487.0	487.0	487.0	484.4	481.7	480.4	480.4	477.7	473.7	471.1	467.1
32.5°	455.1	455.1	456.4	455.1	455.1	455.1	452.4	449.8	444.4	440.5	433.8
35°	408.5	411.2	412.5	415.2	417.8	420.5	421.8	421.8	416.5	409.9	401.9
37.5°	363.3	364.6	365.9	371.3	373.9	376.6	377.9	383.2	387.2	380.6	372.6
40°	318.0	319.4	323.4	324.7	331.3	332.7	336.7	342.0	347.3	348.6	344.6
42.5°	276.8	278.1	280.8	283.4	290.1	294.1	295.4	299.4	306.1	311.4	310.0
45°	242.2	242.2	243.5	247.5	251.5	254.2	258.2	263.5	268.8	271.5	271.5
47.5°	208.9	208.9	210.2	214.2	219.6	219.6	222.2	227.5	234.2	234.2	234.2
50°	182.3	183.6	183.6	186.3	189.0	190.3	192.9	198.3	200.9	200.9	199.6
52.5°	159.7	159.7	161.0	162.3	163.7	166.3	166.3	169.0	171.7	171.7	169.0
55°	139.7	139.7	139.7	141.1	142.4	143.7	145.0	146.4	145.0	143.7	142.4
57.5°	122.4	122.4	122.4	122.4	123.8	125.1	125.1	125.1	123.8	122.4	118.4
60°	107.8	107.8	107.8	107.8	107.8	107.8	107.8	106.5	103.8	102.5	99.8
62.5°	93.1	93.1	93.1	93.1	93.1	93.1	91.8	90.5	89.2	85.2	82.5
65°	79.8	81.2	81.2	79.8	79.8	78.5	78.5	75.8	74.5	71.9	69.2
67.5°	69.2	69.2	69.2	69.2	67.9	66.5	66.5	63.9	62.5	59.9	55.9
70°	58.6	58.6	57.2	57.2	57.2	55.9	54.6	53.2	50.6	47.9	45.2
72.5°	47.9	47.9	47.9	47.9	45.2	45.2	43.9	42.6	39.9	38.6	35.9
75°	38.6	38.6	38.6	37.3	37.3	35.9	34.6	33.3	31.9	29.3	27.9
77.5°	30.6	30.6	30.6	29.3	27.9	27.9	26.6	25.3	24.0	22.6	20.0
80°	22.6	22.6	21.3	21.3	20.0	20.0	20.0	18.6	17.3	16.0	14.6
82.5°	14.6	14.6	14.6	14.6	13.3	13.3	12.0	12.0	10.6	9.3	9.3
85°	8.0	8.0	8.0	8.0	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	1.3	2.7	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1
2.5°	646.7	646.7	645.4	645.4	645.4	644.1	644.1	642.7	642.7	641.4	641.4
5°	646.7	645.4	644.1	642.7	641.4	641.4	640.1	637.4	636.1	636.1	633.4
7.5°	641.4	640.1	637.4	636.1	634.7	633.4	630.7	629.4	626.8	624.1	622.8
10°	633.4	630.7	626.8	624.1	624.1	621.4	618.8	616.1	612.1	610.8	606.8
12.5°	620.1	616.1	613.4	610.8	608.1	606.8	602.8	600.1	594.8	592.2	588.2
15°	605.5	601.5	597.5	592.2	590.8	588.2	584.2	578.8	576.2	570.9	566.9
17.5°	588.2	581.5	577.5	572.2	569.5	566.9	560.2	556.2	552.2	545.6	541.6
20°	565.5	560.2	554.9	548.2	545.6	541.6	536.3	529.6	524.3	519.0	513.6
22.5°	541.6	536.3	529.6	523.0	519.0	515.0	508.3	501.7	495.0	488.4	484.4
25°	515.0	508.3	501.7	495.0	489.7	487.0	479.0	472.4	464.4	457.8	452.4
27.5°	488.4	481.7	473.7	464.4	459.1	456.4	448.4	439.1	431.1	425.8	419.2
30°	459.1	451.1	441.8	433.8	428.5	424.5	417.8	408.5	401.9	395.2	385.9
32.5°	427.1	419.2	412.5	401.9	397.9	393.9	384.6	375.3	365.9	359.3	354.0
35°	395.2	389.9	381.9	371.3	364.6	359.3	347.3	339.3	331.3	324.7	319.4
37.5°	365.9	358.0	344.6	332.7	327.3	323.4	310.0	302.1	292.8	288.8	280.8
40°	334.0	322.0	310.0	298.1	292.8	287.4	278.1	266.1	259.5	252.8	247.5
42.5°	302.1	286.1	274.1	263.5	256.8	251.5	240.9	231.5	223.6	219.6	214.2
45°	266.1	254.2	240.9	228.9	224.9	218.2	208.9	200.9	194.3	189.0	185.0
47.5°	228.9	222.2	208.9	198.3	192.9	187.6	179.6	171.7	165.0	159.7	157.0
50°	195.6	190.3	181.0	169.0	165.0	159.7	151.7	146.4	139.7	134.4	131.7
52.5°	165.0	159.7	153.0	143.7	138.4	135.7	127.7	122.4	118.4	114.4	110.4
55°	138.4	133.1	127.7	119.8	115.8	111.8	106.5	101.1	97.1	94.5	91.8
57.5°	115.8	110.4	105.1	99.8	95.8	93.1	87.8	85.2	81.2	77.2	75.8
60°	95.8	91.8	87.8	82.5	79.8	75.8	71.9	67.9	65.2	62.5	59.9
62.5°	79.8	75.8	71.9	66.5	65.2	62.5	58.6	54.6	51.9	50.6	47.9
65°	65.2	61.2	58.6	54.6	51.9	50.6	46.6	43.9	41.3	38.6	35.9
67.5°	53.2	50.6	47.9	43.9	41.3	39.9	35.9	33.3	31.9	29.3	27.9
70°	42.6	39.9	37.3	34.6	31.9	30.6	27.9	25.3	24.0	21.3	20.0
72.5°	33.3	30.6	29.3	25.3	24.0	22.6	20.0	18.6	17.3	16.0	14.6
75°	25.3	24.0	21.3	18.6	17.3	17.3	14.6	13.3	12.0	10.6	9.3
77.5°	18.6	17.3	14.6	13.3	12.0	12.0	10.6	9.3	8.0	6.7	6.7
80°	13.3	10.6	9.3	8.0	8.0	6.7	6.7	5.3	4.0	4.0	2.7
82.5°	8.0	6.7	5.3	5.3	4.0	4.0	4.0	2.7	2.7	1.3	1.3
85°	4.0	2.7	2.7	2.7	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1
2.5°	640.1	638.7	638.7	638.7	637.4	637.4	636.1	636.1	634.7	634.7	634.7
5°	632.1	630.7	629.4	628.1	628.1	626.8	625.4	625.4	624.1	622.8	621.4
7.5°	620.1	618.8	617.4	614.8	613.4	612.1	610.8	608.1	606.8	605.5	605.5
10°	604.1	601.5	598.8	597.5	597.5	593.5	592.2	590.8	588.2	586.8	584.2
12.5°	584.2	581.5	578.8	576.2	574.9	572.2	570.9	568.2	565.5	562.9	560.2
15°	562.9	558.9	554.9	553.6	550.9	549.6	545.6	541.6	540.3	537.6	536.3
17.5°	536.3	530.9	529.6	527.0	524.3	521.6	519.0	515.0	511.0	509.7	505.7
20°	508.3	504.3	499.0	497.7	495.0	492.4	488.4	484.4	481.7	479.0	476.4
22.5°	477.7	475.1	468.4	467.1	464.4	460.4	456.4	452.4	451.1	447.1	444.4
25°	447.1	440.5	436.5	433.8	432.5	428.5	425.8	421.8	419.2	415.2	412.5
27.5°	412.5	408.5	404.5	400.5	399.2	396.5	392.6	388.6	385.9	381.9	379.2
30°	381.9	376.6	371.3	368.6	367.3	361.9	359.3	356.6	351.3	348.6	347.3
32.5°	347.3	342.0	338.0	338.0	334.0	331.3	326.0	323.4	322.0	316.7	314.0
35°	312.7	308.7	306.1	304.7	303.4	298.1	295.4	292.8	288.8	287.4	283.4
37.5°	278.1	272.8	270.1	268.8	267.5	266.1	264.8	260.8	258.2	255.5	252.8
40°	242.2	239.5	236.9	236.9	235.5	234.2	231.5	230.2	228.9	226.2	223.6
42.5°	211.6	207.6	206.3	204.9	204.9	202.3	202.3	200.9	199.6	196.9	194.3
45°	181.0	178.3	177.0	174.3	174.3	173.0	173.0	173.0	170.3	169.0	167.7
47.5°	154.4	151.7	150.4	149.0	147.7	146.4	146.4	146.4	143.7	143.7	141.1
50°	129.1	126.4	126.4	126.4	125.1	123.8	122.4	119.8	119.8	118.4	117.1
52.5°	109.1	106.5	105.1	103.8	103.8	102.5	101.1	99.8	97.1	95.8	94.5
55°	89.2	87.8	85.2	85.2	83.8	82.5	81.2	79.8	78.5	74.5	73.2
57.5°	73.2	70.5	69.2	67.9	67.9	66.5	63.9	62.5	59.9	57.2	54.6
60°	58.6	55.9	54.6	53.2	53.2	50.6	49.2	46.6	43.9	41.3	38.6
62.5°	45.2	43.9	41.3	39.9	39.9	38.6	35.9	33.3	30.6	27.9	24.0
65°	34.6	33.3	30.6	30.6	29.3	26.6	24.0	21.3	18.6	16.0	13.3
67.5°	25.3	24.0	22.6	21.3	20.0	17.3	14.6	12.0	9.3	6.7	4.0
70°	18.6	17.3	14.6	14.6	13.3	10.6	8.0	5.3	4.0	2.7	2.7
72.5°	12.0	10.6	9.3	8.0	6.7	5.3	2.7	1.3	1.3	1.3	1.3
75°	8.0	6.7	5.3	4.0	4.0	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	5.3	4.0	2.7	1.3	1.3	0.0	1.3	1.3	0.0	1.3	1.3
80°	2.7	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	1.3	1.3	1.3	1.3	0.0	1.3	0.0	1.3	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: PRS615D010-S6M12-61SWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	644.1	644.1	644.1	644.1	644.1	644.1	644.1	644.1
2.5°	633.4	633.4	633.4	633.4	633.4	633.4	633.4	632.1
5°	620.1	620.1	620.1	620.1	618.8	618.8	618.8	618.8
7.5°	604.1	602.8	601.5	601.5	601.5	600.1	600.1	601.5
10°	582.8	582.8	581.5	581.5	580.2	580.2	580.2	578.8
12.5°	558.9	557.6	557.6	554.9	556.2	554.9	553.6	554.9
15°	532.3	530.9	529.6	529.6	529.6	528.3	528.3	529.6
17.5°	504.3	501.7	500.3	501.7	499.0	499.0	499.0	497.7
20°	473.7	471.1	469.7	469.7	468.4	467.1	467.1	467.1
22.5°	441.8	440.5	437.8	437.8	436.5	436.5	435.1	435.1
25°	411.2	407.2	407.2	405.9	403.2	404.5	401.9	401.9
27.5°	376.6	375.3	375.3	373.9	371.3	369.9	368.6	369.9
30°	344.6	342.0	340.7	339.3	339.3	339.3	338.0	336.7
32.5°	312.7	310.0	307.4	307.4	307.4	304.7	304.7	304.7
35°	280.8	279.4	276.8	275.5	275.5	274.1	272.8	271.5
37.5°	250.2	247.5	246.2	243.5	243.5	240.9	239.5	240.9
40°	219.6	216.9	215.6	215.6	212.9	210.2	210.2	210.2
42.5°	191.6	187.6	187.6	185.0	182.3	181.0	178.3	179.6
45°	165.0	161.0	159.7	159.7	154.4	153.0	151.7	151.7
47.5°	138.4	137.1	134.4	131.7	127.7	123.8	122.4	122.4
50°	114.4	110.4	109.1	107.8	102.5	99.8	97.1	97.1
52.5°	91.8	87.8	85.2	83.8	79.8	75.8	74.5	73.2
55°	70.5	66.5	65.2	63.9	58.6	55.9	53.2	51.9
57.5°	51.9	49.2	46.6	43.9	39.9	37.3	34.6	33.3
60°	35.9	31.9	30.6	29.3	25.3	22.6	20.0	20.0
62.5°	22.6	18.6	17.3	16.0	13.3	10.6	10.6	10.6
65°	9.3	6.7	6.7	6.7	5.3	5.3	5.3	5.3
67.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
70°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	1.3	1.3	1.3	0.0	0.0	1.3	1.3
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

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