

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: P238346

Luminaire Tested: **PRS630D010-S6M24-61SWWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238346
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: PRS630D010-S6M24-61SWWH
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: 1995.5 lumens
Efficiency: N/A
Efficacy: 78.3 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

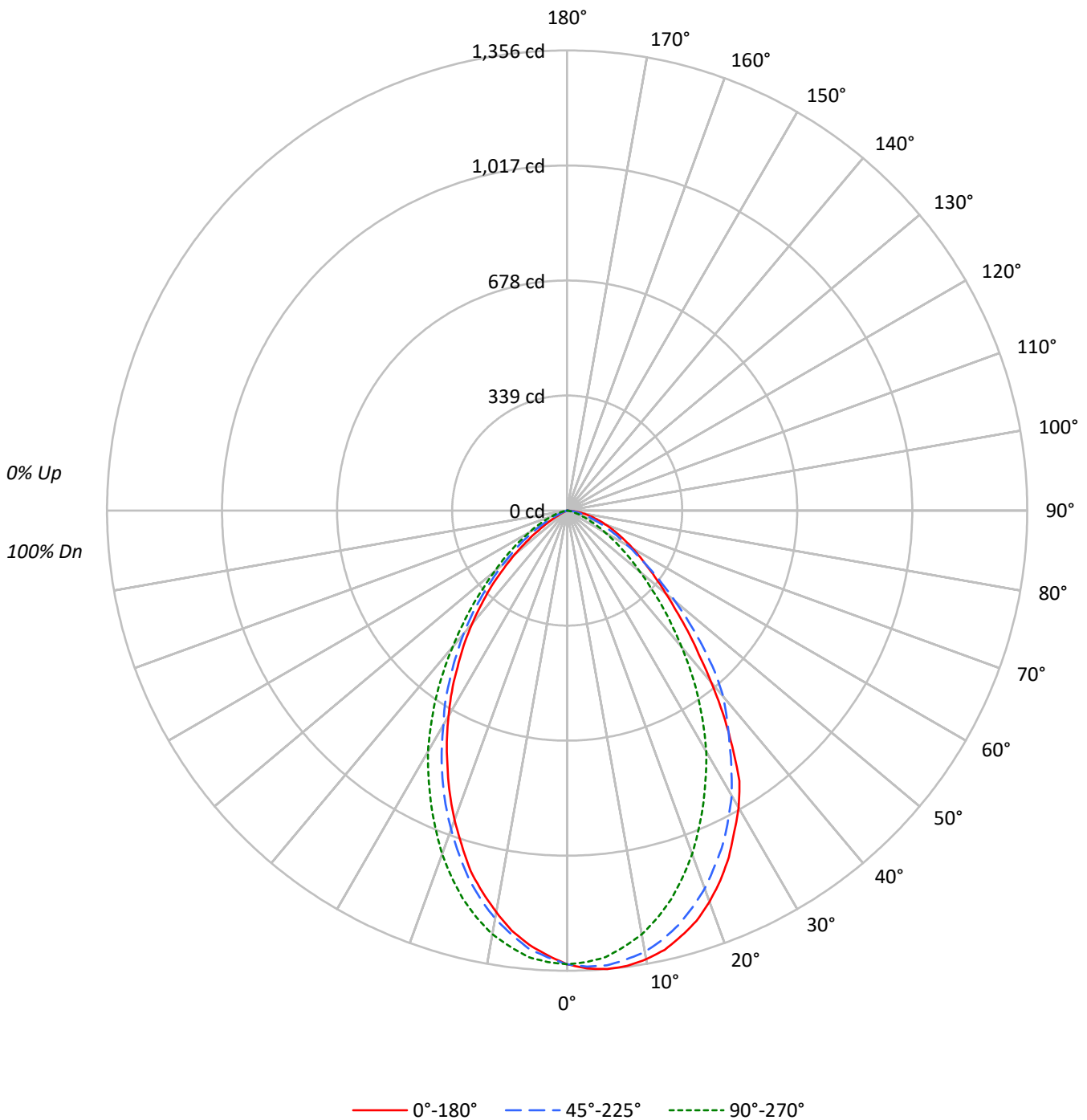
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	57565	57565	57565
5°	58619	57068	55516
10°	58694	55432	52534
15°	57871	52821	49005
20°	56197	49361	44426
25°	53540	45141	39630
30°	50263	40787	34747
35°	44572	35426	29618
40°	37107	29496	24528
45°	30609	23881	19174
50°	25346	18688	13504
55°	21769	14720	8085
60°	19263	11177	3565
65°	16881	8160	1121
70°	15295	5564	692
75°	13325	3676	466
80°	11654	2058	0
85°	8201	1383	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	6.2
10°-20°	333.9	16.7
20°-30°	445.1	22.3
30°-40°	439.3	22.0
40°-50°	329.4	16.5
50°-60°	193.3	9.7
60°-70°	90.0	4.5
70°-80°	33.8	1.7
80°-90°	6.4	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°	903.3	45.3
0°-40°	1342.6	67.3
0°-60°	1865.4	93.5
0°-90°	1995.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1995.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1337	1337	1337	1337	1337	
5°	1356	1345	1320	1296	1284	129
15°	1298	1265	1185	1122	1099	365
25°	1127	1086	950	870	834	517
35°	848	834	674	599	564	527
45°	503	564	392	354	315	390
55°	290	296	196	163	108	263
65°	166	144	80	39	11	167
75°	80	58	22	3	3	86
85°	17	8	3	0	0	20
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°	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0
2.5°	1350.8	1350.8	1350.8	1350.8	1348.0	1348.0	1348.0	1348.0	1348.0	1345.2	1345.2
5°	1356.3	1356.3	1353.5	1353.5	1353.5	1353.5	1350.8	1350.8	1348.0	1348.0	1345.2
7.5°	1353.5	1350.8	1350.8	1350.8	1348.0	1348.0	1348.0	1345.2	1342.5	1339.7	1334.2
10°	1342.5	1342.5	1342.5	1339.7	1337.0	1337.0	1337.0	1331.4	1328.7	1323.1	1320.4
12.5°	1325.9	1323.1	1323.1	1320.4	1317.6	1317.6	1314.9	1309.3	1306.6	1301.0	1295.5
15°	1298.3	1298.3	1298.3	1295.5	1292.8	1290.0	1287.2	1284.5	1278.9	1273.4	1265.1
17.5°	1267.9	1265.1	1265.1	1262.4	1256.8	1256.8	1254.1	1248.6	1243.0	1237.5	1226.5
20°	1226.5	1226.5	1226.5	1223.7	1220.9	1215.4	1215.4	1207.1	1201.6	1193.3	1185.0
22.5°	1179.5	1179.5	1179.5	1176.7	1174.0	1171.2	1168.5	1162.9	1154.6	1146.4	1135.3
25°	1127.0	1124.3	1124.3	1124.3	1121.5	1118.7	1116.0	1110.4	1104.9	1096.6	1085.6
27.5°	1066.2	1063.5	1063.5	1063.5	1060.7	1058.0	1055.2	1055.2	1049.7	1038.6	1027.6
30°	1011.0	1011.0	1011.0	1005.5	1000.0	997.2	997.2	991.7	983.4	977.9	969.6
32.5°	944.7	944.7	947.5	944.7	944.7	944.7	939.2	933.7	922.6	914.3	900.5
35°	848.0	853.6	856.3	861.8	867.4	872.9	875.7	875.7	864.6	850.8	834.2
37.5°	754.1	756.9	759.6	770.7	776.2	781.7	784.5	795.5	803.8	790.0	773.4
40°	660.2	663.0	671.2	674.0	687.8	690.6	698.9	709.9	721.0	723.7	715.4
42.5°	574.6	577.3	582.8	588.4	602.2	610.5	613.2	621.5	635.3	646.4	643.6
45°	502.7	502.7	505.5	513.8	522.1	527.6	535.9	546.9	558.0	563.5	563.5
47.5°	433.7	433.7	436.4	444.7	455.8	455.8	461.3	472.4	486.2	486.2	486.2
50°	378.4	381.2	381.2	386.7	392.2	395.0	400.5	411.6	417.1	417.1	414.3
52.5°	331.5	331.5	334.2	337.0	339.8	345.3	345.3	350.8	356.3	356.3	350.8
55°	290.0	290.0	290.0	292.8	295.6	298.3	301.1	303.9	301.1	298.3	295.6
57.5°	254.1	254.1	254.1	254.1	256.9	259.7	259.7	259.7	256.9	254.1	245.8
60°	223.7	223.7	223.7	223.7	223.7	223.7	223.7	221.0	215.5	212.7	207.2
62.5°	193.4	193.4	193.4	193.4	193.4	193.4	190.6	187.8	185.1	176.8	171.3
65°	165.7	168.5	168.5	165.7	165.7	163.0	163.0	157.5	154.7	149.2	143.6
67.5°	143.6	143.6	143.6	143.6	140.9	138.1	138.1	132.6	129.8	124.3	116.0
70°	121.5	121.5	118.8	118.8	118.8	116.0	113.3	110.5	105.0	99.4	93.9
72.5°	99.4	99.4	99.4	99.4	93.9	93.9	91.2	88.4	82.9	80.1	74.6
75°	80.1	80.1	80.1	77.3	77.3	74.6	71.8	69.1	66.3	60.8	58.0
77.5°	63.5	63.5	63.5	60.8	58.0	58.0	55.2	52.5	49.7	47.0	41.4
80°	47.0	47.0	44.2	44.2	41.4	41.4	41.4	38.7	35.9	33.1	30.4
82.5°	30.4	30.4	30.4	30.4	27.6	27.6	24.9	24.9	22.1	19.3	19.3
85°	16.6	16.6	16.6	16.6	13.8	13.8	13.8	13.8	11.0	11.0	8.3
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	5.5	2.8	2.8	2.8	2.8
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°	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0
2.5°	1342.5	1342.5	1339.7	1339.7	1339.7	1337.0	1337.0	1334.2	1334.2	1331.4	1331.4
5°	1342.5	1339.7	1337.0	1334.2	1331.4	1331.4	1328.7	1323.1	1320.4	1320.4	1314.9
7.5°	1331.4	1328.7	1323.1	1320.4	1317.6	1314.9	1309.3	1306.6	1301.0	1295.5	1292.8
10°	1314.9	1309.3	1301.0	1295.5	1295.5	1290.0	1284.5	1278.9	1270.7	1267.9	1259.6
12.5°	1287.2	1278.9	1273.4	1267.9	1262.4	1259.6	1251.3	1245.8	1234.8	1229.2	1220.9
15°	1256.8	1248.6	1240.3	1229.2	1226.5	1220.9	1212.7	1201.6	1196.1	1185.0	1176.7
17.5°	1220.9	1207.1	1198.8	1187.8	1182.3	1176.7	1162.9	1154.6	1146.4	1132.5	1124.3
20°	1174.0	1162.9	1151.9	1138.1	1132.5	1124.3	1113.2	1099.4	1088.3	1077.3	1066.2
22.5°	1124.3	1113.2	1099.4	1085.6	1077.3	1069.0	1055.2	1041.4	1027.6	1013.8	1005.5
25°	1069.0	1055.2	1041.4	1027.6	1016.5	1011.0	994.4	980.6	964.0	950.2	939.2
27.5°	1013.8	1000.0	983.4	964.0	953.0	947.5	930.9	911.6	895.0	883.9	870.1
30°	953.0	936.4	917.1	900.5	889.5	881.2	867.4	848.0	834.2	820.4	801.1
32.5°	886.7	870.1	856.3	834.2	825.9	817.6	798.3	779.0	759.6	745.8	734.8
35°	820.4	809.4	792.8	770.7	756.9	745.8	721.0	704.4	687.8	674.0	663.0
37.5°	759.6	743.1	715.4	690.6	679.5	671.2	643.6	627.0	607.7	599.4	582.8
40°	693.3	668.5	643.6	618.8	607.7	596.7	577.3	552.5	538.6	524.8	513.8
42.5°	627.0	593.9	569.0	546.9	533.1	522.1	500.0	480.6	464.1	455.8	444.7
45°	552.5	527.6	500.0	475.1	466.8	453.0	433.7	417.1	403.3	392.2	384.0
47.5°	475.1	461.3	433.7	411.6	400.5	389.5	372.9	356.3	342.5	331.5	326.0
50°	406.1	395.0	375.7	350.8	342.5	331.5	314.9	303.9	290.0	279.0	273.5
52.5°	342.5	331.5	317.7	298.3	287.3	281.8	265.2	254.1	245.8	237.6	229.3
55°	287.3	276.2	265.2	248.6	240.3	232.0	221.0	209.9	201.6	196.1	190.6
57.5°	240.3	229.3	218.2	207.2	198.9	193.4	182.3	176.8	168.5	160.2	157.5
60°	198.9	190.6	182.3	171.3	165.7	157.5	149.2	140.9	135.4	129.8	124.3
62.5°	165.7	157.5	149.2	138.1	135.4	129.8	121.5	113.3	107.7	105.0	99.4
65°	135.4	127.1	121.5	113.3	107.7	105.0	96.7	91.2	85.6	80.1	74.6
67.5°	110.5	105.0	99.4	91.2	85.6	82.9	74.6	69.1	66.3	60.8	58.0
70°	88.4	82.9	77.3	71.8	66.3	63.5	58.0	52.5	49.7	44.2	41.4
72.5°	69.1	63.5	60.8	52.5	49.7	47.0	41.4	38.7	35.9	33.1	30.4
75°	52.5	49.7	44.2	38.7	35.9	35.9	30.4	27.6	24.9	22.1	19.3
77.5°	38.7	35.9	30.4	27.6	24.9	24.9	22.1	19.3	16.6	13.8	13.8
80°	27.6	22.1	19.3	16.6	16.6	13.8	13.8	11.0	8.3	8.3	5.5
82.5°	16.6	13.8	11.0	11.0	8.3	8.3	8.3	5.5	5.5	2.8	2.8
85°	8.3	5.5	5.5	5.5	2.8	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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°	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0
2.5°	1328.7	1325.9	1325.9	1325.9	1323.1	1323.1	1320.4	1320.4	1317.6	1317.6	1317.6
5°	1312.1	1309.3	1306.6	1303.8	1303.8	1301.0	1298.3	1298.3	1295.5	1292.8	1290.0
7.5°	1287.2	1284.5	1281.7	1276.2	1273.4	1270.7	1267.9	1262.4	1259.6	1256.8	1256.8
10°	1254.1	1248.6	1243.0	1240.3	1240.3	1232.0	1229.2	1226.5	1220.9	1218.2	1212.7
12.5°	1212.7	1207.1	1201.6	1196.1	1193.3	1187.8	1185.0	1179.5	1174.0	1168.5	1162.9
15°	1168.5	1160.2	1151.9	1149.1	1143.6	1140.8	1132.5	1124.3	1121.5	1116.0	1113.2
17.5°	1113.2	1102.2	1099.4	1093.9	1088.3	1082.8	1077.3	1069.0	1060.7	1058.0	1049.7
20°	1055.2	1046.9	1035.9	1033.1	1027.6	1022.1	1013.8	1005.5	1000.0	994.4	988.9
22.5°	991.7	986.1	972.3	969.6	964.0	955.8	947.5	939.2	936.4	928.1	922.6
25°	928.1	914.3	906.0	900.5	897.7	889.5	883.9	875.7	870.1	861.8	856.3
27.5°	856.3	848.0	839.7	831.5	828.7	823.2	814.9	806.6	801.1	792.8	787.3
30°	792.8	781.7	770.7	765.2	762.4	751.3	745.8	740.3	729.2	723.7	721.0
32.5°	721.0	709.9	701.6	701.6	693.3	687.8	676.8	671.2	668.5	657.4	651.9
35°	649.1	640.9	635.3	632.6	629.8	618.8	613.2	607.7	599.4	596.7	588.4
37.5°	577.3	566.3	560.7	558.0	555.2	552.5	549.7	541.4	535.9	530.4	524.8
40°	502.7	497.2	491.7	491.7	488.9	486.2	480.6	477.9	475.1	469.6	464.1
42.5°	439.2	430.9	428.2	425.4	425.4	419.9	419.9	417.1	414.3	408.8	403.3
45°	375.7	370.1	367.4	361.9	361.9	359.1	359.1	359.1	353.6	350.8	348.1
47.5°	320.4	314.9	312.1	309.4	306.6	303.9	303.9	303.9	298.3	298.3	292.8
50°	267.9	262.4	262.4	262.4	259.7	256.9	254.1	248.6	248.6	245.8	243.1
52.5°	226.5	221.0	218.2	215.5	215.5	212.7	209.9	207.2	201.6	198.9	196.1
55°	185.1	182.3	176.8	176.8	174.0	171.3	168.5	165.7	163.0	154.7	151.9
57.5°	151.9	146.4	143.6	140.9	140.9	138.1	132.6	129.8	124.3	118.8	113.3
60°	121.5	116.0	113.3	110.5	110.5	105.0	102.2	96.7	91.2	85.6	80.1
62.5°	93.9	91.2	85.6	82.9	82.9	80.1	74.6	69.1	63.5	58.0	49.7
65°	71.8	69.1	63.5	63.5	60.8	55.2	49.7	44.2	38.7	33.1	27.6
67.5°	52.5	49.7	47.0	44.2	41.4	35.9	30.4	24.9	19.3	13.8	8.3
70°	38.7	35.9	30.4	30.4	27.6	22.1	16.6	11.0	8.3	5.5	5.5
72.5°	24.9	22.1	19.3	16.6	13.8	11.0	5.5	2.8	2.8	2.8	2.8
75°	16.6	13.8	11.0	8.3	8.3	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	11.0	8.3	5.5	2.8	2.8	0.0	2.8	2.8	0.0	2.8	2.8
80°	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.8	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°	2.8	2.8	2.8	2.8	2.8	0.0	2.8	0.0	2.8	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: P238346

CATALOG NUMBER: PRS630D010-S6M24-61SWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0	1337.0
2.5°	1314.9	1314.9	1314.9	1314.9	1314.9	1314.9	1314.9	1312.1
5°	1287.2	1287.2	1287.2	1287.2	1284.5	1284.5	1284.5	1284.5
7.5°	1254.1	1251.3	1248.6	1248.6	1248.6	1245.8	1245.8	1248.6
10°	1209.9	1209.9	1207.1	1207.1	1204.4	1204.4	1204.4	1201.6
12.5°	1160.2	1157.4	1157.4	1151.9	1154.6	1151.9	1149.1	1151.9
15°	1104.9	1102.2	1099.4	1099.4	1099.4	1096.6	1096.6	1099.4
17.5°	1046.9	1041.4	1038.6	1041.4	1035.9	1035.9	1035.9	1033.1
20°	983.4	977.9	975.1	975.1	972.3	969.6	969.6	969.6
22.5°	917.1	914.3	908.8	908.8	906.0	906.0	903.3	903.3
25°	853.6	845.3	845.3	842.5	837.0	839.7	834.2	834.2
27.5°	781.7	779.0	779.0	776.2	770.7	767.9	765.2	767.9
30°	715.4	709.9	707.2	704.4	704.4	704.4	701.6	698.9
32.5°	649.1	643.6	638.1	638.1	638.1	632.6	632.6	632.6
35°	582.8	580.1	574.6	571.8	571.8	569.0	566.3	563.5
37.5°	519.3	513.8	511.0	505.5	505.5	500.0	497.2	500.0
40°	455.8	450.3	447.5	447.5	442.0	436.4	436.4	436.4
42.5°	397.8	389.5	389.5	384.0	378.4	375.7	370.1	372.9
45°	342.5	334.2	331.5	331.5	320.4	317.7	314.9	314.9
47.5°	287.3	284.5	279.0	273.5	265.2	256.9	254.1	254.1
50°	237.6	229.3	226.5	223.7	212.7	207.2	201.6	201.6
52.5°	190.6	182.3	176.8	174.0	165.7	157.5	154.7	151.9
55°	146.4	138.1	135.4	132.6	121.5	116.0	110.5	107.7
57.5°	107.7	102.2	96.7	91.2	82.9	77.3	71.8	69.1
60°	74.6	66.3	63.5	60.8	52.5	47.0	41.4	41.4
62.5°	47.0	38.7	35.9	33.1	27.6	22.1	22.1	22.1
65°	19.3	13.8	13.8	13.8	11.0	11.0	11.0	11.0
67.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
70°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	2.8	2.8	2.8	2.8	0.0	0.0	2.8	2.8
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)