

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: P238361

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238361
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: PRS630D010-S6M24-61SWWMW
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: 2037.0 lumens
Efficiency: N/A
Efficacy: 79.9 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

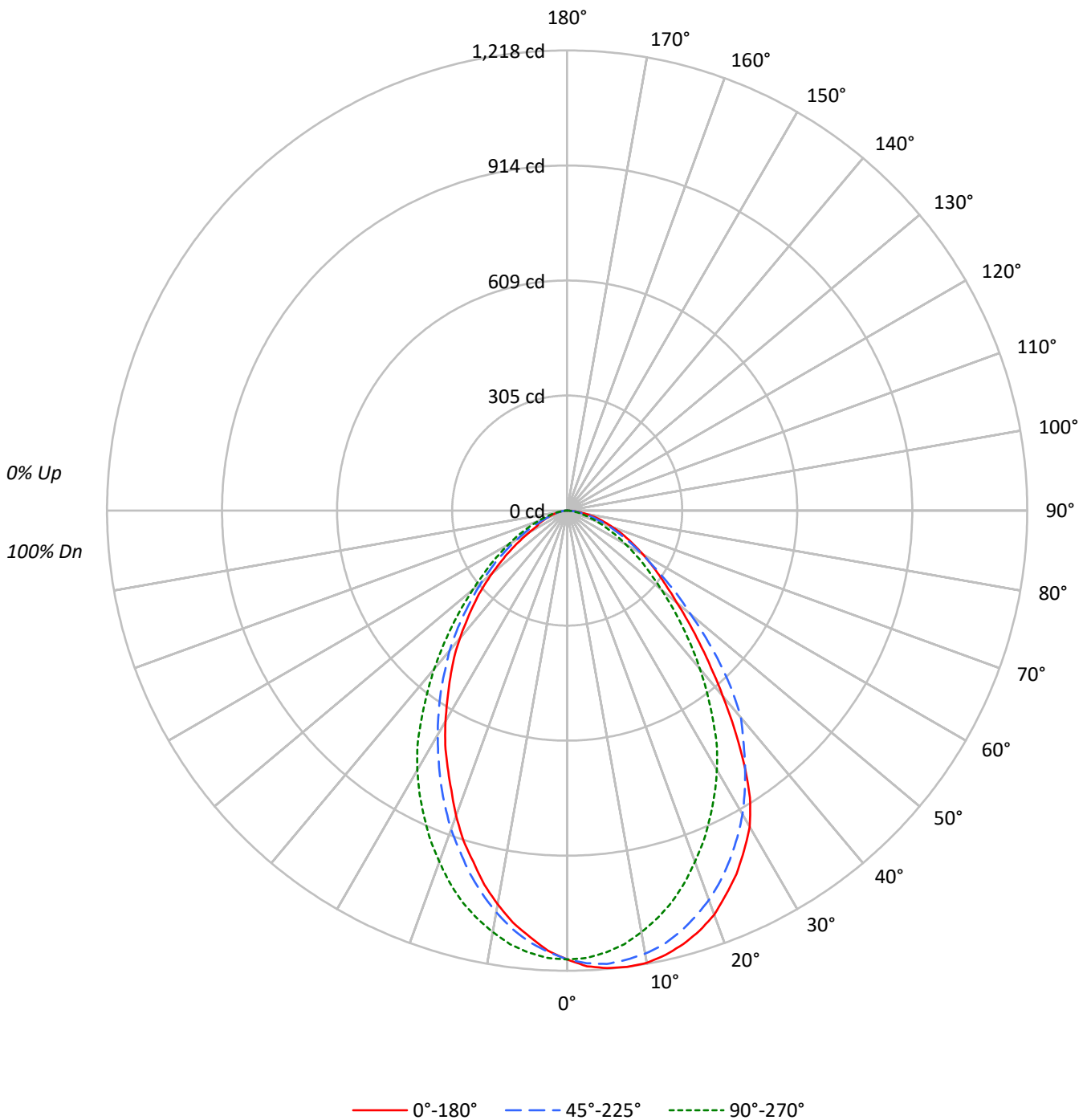
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	51150	51150	51150
5°	52538	50749	48960
10°	53146	49526	46264
15°	52955	47784	42858
20°	52156	45319	39368
25°	50400	42528	35568
30°	48076	39420	32002
35°	42837	35290	28315
40°	36028	30744	24848
45°	30110	26073	21196
50°	25353	21836	17395
55°	22189	18459	13684
60°	19986	15466	9989
65°	18012	12663	8446
70°	16000	10436	7301
75°	14706	8268	6438
80°	12323	6174	5480
85°	9534	4100	4100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	5.4
10°-20°	301.6	14.8
20°-30°	414.5	20.3
30°-40°	429.4	21.1
40°-50°	346.5	17.0
50°-60°	230.0	11.3
60°-70°	129.9	6.4
70°-80°	59.7	2.9
80°-90°	14.5	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°	827.0	40.6
0°-40°	1256.4	61.7
0°-60°	1832.9	90.0
0°-90°	2037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2037.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1188	1188	1188	1188	1188	
5°	1216	1205	1174	1147	1133	116
15°	1188	1155	1072	995	962	334
25°	1061	1020	895	793	749	487
35°	815	821	671	583	539	506
45°	494	572	428	384	348	385
55°	296	312	246	221	182	267
65°	177	163	124	100	83	176
75°	88	72	50	36	39	93
85°	19	14	8	11	8	23
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°	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0
2.5°	1207.4	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1201.8	1201.8	1199.1
5°	1215.6	1215.6	1215.6	1215.6	1212.9	1212.9	1212.9	1210.1	1207.4	1204.6	1204.6
7.5°	1218.4	1218.4	1218.4	1215.6	1215.6	1215.6	1212.9	1210.1	1207.4	1204.6	1199.1
10°	1215.6	1215.6	1212.9	1212.9	1210.1	1207.4	1207.4	1204.6	1201.8	1196.3	1190.8
12.5°	1204.6	1204.6	1204.6	1201.8	1199.1	1199.1	1196.3	1190.8	1188.0	1182.5	1177.0
15°	1188.0	1188.0	1188.0	1185.2	1182.5	1179.7	1179.7	1174.2	1168.7	1163.1	1154.9
17.5°	1165.9	1165.9	1165.9	1163.1	1157.6	1157.6	1154.9	1149.3	1143.8	1138.3	1127.2
20°	1138.3	1135.5	1135.5	1132.8	1127.2	1127.2	1124.5	1118.9	1113.4	1105.1	1096.8
22.5°	1099.6	1102.4	1099.6	1096.8	1094.1	1091.3	1088.6	1083.0	1077.5	1069.2	1060.9
25°	1060.9	1058.2	1058.2	1058.2	1055.4	1049.9	1047.1	1044.3	1036.1	1027.8	1019.5
27.5°	1014.0	1008.4	1008.4	1011.2	1008.4	1005.7	1002.9	997.4	991.9	983.6	975.3
30°	967.0	964.2	964.2	961.5	955.9	953.2	953.2	947.6	944.9	936.6	928.3
32.5°	900.7	903.4	906.2	909.0	906.2	906.2	906.2	897.9	889.6	884.1	875.8
35°	815.0	817.8	823.3	828.8	839.9	842.7	845.4	848.2	839.9	831.6	820.6
37.5°	726.6	732.1	734.9	743.2	751.5	759.8	762.5	773.6	781.9	779.1	765.3
40°	641.0	643.7	652.0	654.8	668.6	676.9	682.4	693.5	710.0	715.6	715.6
42.5°	563.6	566.4	569.1	577.4	588.5	599.5	602.3	613.3	632.7	641.0	646.5
45°	494.5	497.3	502.8	505.6	516.6	522.2	527.7	544.3	555.3	569.1	571.9
47.5°	433.8	433.8	436.5	444.8	453.1	458.6	461.4	475.2	486.3	494.5	497.3
50°	378.5	381.3	384.0	386.8	392.3	397.8	403.4	414.4	422.7	428.2	425.5
52.5°	334.3	337.1	337.1	339.8	345.4	350.9	353.6	359.2	364.7	367.5	370.2
55°	295.6	295.6	298.4	301.1	303.9	306.7	306.7	312.2	312.2	315.0	312.2
57.5°	262.5	262.5	262.5	265.2	265.2	268.0	268.0	268.0	268.0	268.0	265.2
60°	232.1	229.3	232.1	232.1	234.8	234.8	234.8	232.1	229.3	229.3	226.6
62.5°	201.7	201.7	201.7	204.4	204.4	201.7	201.7	201.7	196.2	196.2	193.4
65°	176.8	174.1	176.8	176.8	176.8	174.1	174.1	171.3	168.5	165.8	163.0
67.5°	152.0	152.0	152.0	152.0	149.2	149.2	149.2	143.7	140.9	138.1	135.4
70°	127.1	129.9	127.1	127.1	127.1	124.3	124.3	121.6	118.8	116.0	113.3
72.5°	107.7	107.7	107.7	105.0	105.0	102.2	102.2	99.5	96.7	93.9	91.2
75°	88.4	88.4	88.4	85.6	82.9	82.9	82.9	80.1	77.4	74.6	71.8
77.5°	69.1	69.1	66.3	66.3	63.5	63.5	63.5	60.8	58.0	55.3	55.3
80°	49.7	49.7	49.7	49.7	47.0	47.0	47.0	44.2	41.4	41.4	38.7
82.5°	33.2	35.9	33.2	33.2	30.4	30.4	30.4	30.4	27.6	27.6	27.6
85°	19.3	19.3	19.3	19.3	16.6	19.3	16.6	16.6	16.6	16.6	13.8
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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°	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0
2.5°	1199.1	1196.3	1196.3	1193.5	1193.5	1190.8	1190.8	1188.0	1188.0	1185.2	1182.5
5°	1199.1	1196.3	1193.5	1193.5	1190.8	1188.0	1185.2	1182.5	1177.0	1174.2	1171.4
7.5°	1196.3	1193.5	1188.0	1182.5	1179.7	1177.0	1174.2	1168.7	1163.1	1157.6	1152.1
10°	1188.0	1182.5	1174.2	1168.7	1165.9	1160.4	1154.9	1149.3	1141.0	1132.8	1127.2
12.5°	1171.4	1163.1	1154.9	1146.6	1143.8	1138.3	1130.0	1121.7	1113.4	1105.1	1096.8
15°	1146.6	1138.3	1130.0	1121.7	1116.2	1113.4	1102.4	1091.3	1083.0	1072.0	1060.9
17.5°	1118.9	1110.7	1099.6	1088.6	1083.0	1077.5	1069.2	1055.4	1047.1	1033.3	1025.0
20°	1088.6	1077.5	1063.7	1052.6	1047.1	1041.6	1027.8	1016.7	1002.9	989.1	980.8
22.5°	1049.9	1036.1	1025.0	1014.0	1005.7	1000.1	986.3	972.5	958.7	944.9	931.1
25°	1005.7	994.6	980.8	969.7	961.5	953.2	939.4	925.5	909.0	895.2	881.3
27.5°	964.2	950.4	936.6	920.0	914.5	903.4	889.6	875.8	859.2	845.4	828.8
30°	914.5	900.7	884.1	870.3	864.8	856.5	839.9	823.3	809.5	792.9	779.1
32.5°	864.8	850.9	837.1	820.6	812.3	801.2	784.6	768.1	751.5	737.7	721.1
35°	812.3	798.5	781.9	765.3	754.2	743.2	723.9	704.5	687.9	671.4	663.1
37.5°	757.0	740.4	723.9	699.0	687.9	676.9	657.6	641.0	624.4	607.8	599.5
40°	696.2	676.9	657.6	635.4	624.4	610.6	594.0	577.4	560.9	547.0	536.0
42.5°	635.4	610.6	591.2	566.4	558.1	547.0	530.5	511.1	497.3	486.3	475.2
45°	566.4	549.8	527.7	505.6	494.5	486.3	469.7	453.1	439.3	428.2	419.9
47.5°	494.5	486.3	464.2	442.1	436.5	425.5	408.9	395.1	384.0	375.7	367.5
50°	428.2	422.7	408.9	386.8	378.5	370.2	356.4	345.4	334.3	326.0	320.5
52.5°	367.5	361.9	353.6	337.1	328.8	320.5	309.4	298.4	290.1	281.8	279.0
55°	312.2	306.7	298.4	287.3	281.8	273.5	265.2	256.9	248.7	245.9	240.4
57.5°	265.2	256.9	251.4	243.1	240.4	234.8	226.6	221.0	215.5	210.0	204.4
60°	223.8	218.3	212.7	207.2	204.4	201.7	193.4	187.9	182.3	179.6	174.1
62.5°	190.6	185.1	179.6	174.1	171.3	168.5	163.0	157.5	152.0	152.0	146.4
65°	160.2	154.7	152.0	146.4	143.7	140.9	135.4	132.6	127.1	124.3	121.6
67.5°	132.6	129.9	127.1	118.8	118.8	116.0	110.5	107.7	105.0	102.2	99.5
70°	107.7	105.0	102.2	99.5	96.7	93.9	91.2	88.4	82.9	82.9	80.1
72.5°	88.4	85.6	80.1	77.4	77.4	74.6	71.8	69.1	66.3	63.5	63.5
75°	69.1	66.3	63.5	60.8	58.0	58.0	55.3	52.5	52.5	49.7	47.0
77.5°	52.5	49.7	47.0	44.2	44.2	41.4	41.4	38.7	38.7	35.9	35.9
80°	35.9	35.9	33.2	33.2	30.4	30.4	27.6	27.6	27.6	24.9	24.9
82.5°	24.9	22.1	22.1	22.1	19.3	19.3	19.3	19.3	16.6	16.6	16.6
85°	13.8	13.8	11.1	11.1	11.1	11.1	11.1	11.1	11.1	8.3	8.3
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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°	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0
2.5°	1182.5	1179.7	1177.0	1177.0	1177.0	1174.2	1174.2	1171.4	1168.7	1168.7	1165.9
5°	1165.9	1163.1	1160.4	1157.6	1157.6	1152.1	1152.1	1149.3	1146.6	1143.8	1141.0
7.5°	1146.6	1141.0	1138.3	1132.8	1132.8	1130.0	1121.7	1118.9	1116.2	1110.7	1107.9
10°	1121.7	1113.4	1107.9	1105.1	1099.6	1096.8	1088.6	1085.8	1080.3	1077.5	1072.0
12.5°	1088.6	1080.3	1072.0	1069.2	1066.4	1058.2	1052.6	1044.3	1038.8	1033.3	1027.8
15°	1052.6	1044.3	1033.3	1030.5	1027.8	1016.7	1008.4	1002.9	994.6	989.1	983.6
17.5°	1011.2	1000.1	989.1	986.3	980.8	969.7	964.2	955.9	944.9	939.4	933.8
20°	967.0	955.9	944.9	942.1	936.6	925.5	914.5	906.2	897.9	892.4	884.1
22.5°	917.3	906.2	892.4	886.9	884.1	870.3	862.0	853.7	845.4	834.4	828.8
25°	870.3	856.5	845.4	837.1	831.6	820.6	812.3	798.5	792.9	781.9	776.4
27.5°	817.8	804.0	792.9	784.6	779.1	770.8	757.0	746.0	737.7	729.4	723.9
30°	765.3	751.5	740.4	732.1	726.6	715.6	701.8	696.2	685.2	676.9	668.6
32.5°	710.0	696.2	682.4	679.7	671.4	660.3	652.0	641.0	632.7	624.4	616.1
35°	646.5	638.2	627.2	624.4	618.9	607.8	599.5	591.2	583.0	571.9	563.6
37.5°	585.7	574.7	569.1	563.6	560.9	555.3	547.0	538.7	530.5	522.2	519.4
40°	524.9	516.6	508.4	508.4	505.6	500.1	494.5	489.0	483.5	475.2	469.7
42.5°	466.9	458.6	455.9	450.3	447.6	444.8	439.3	436.5	433.8	428.2	422.7
45°	411.7	406.1	400.6	397.8	395.1	392.3	392.3	386.8	384.0	381.3	375.7
47.5°	359.2	356.4	353.6	350.9	348.1	348.1	342.6	339.8	337.1	337.1	331.5
50°	315.0	312.2	309.4	306.7	303.9	303.9	301.1	298.4	295.6	292.9	287.3
52.5°	276.3	273.5	268.0	268.0	268.0	265.2	262.5	259.7	256.9	254.2	251.4
55°	237.6	234.8	232.1	232.1	229.3	229.3	226.6	223.8	221.0	218.3	215.5
57.5°	204.4	201.7	198.9	198.9	196.2	196.2	193.4	190.6	185.1	182.3	179.6
60°	174.1	171.3	168.5	168.5	165.8	163.0	163.0	157.5	154.7	152.0	146.4
62.5°	143.7	140.9	140.9	138.1	138.1	138.1	135.4	129.9	127.1	121.6	118.8
65°	118.8	116.0	116.0	113.3	113.3	110.5	107.7	105.0	99.5	96.7	91.2
67.5°	96.7	96.7	93.9	91.2	91.2	88.4	85.6	80.1	77.4	71.8	69.1
70°	77.4	74.6	74.6	71.8	69.1	66.3	63.5	60.8	58.0	58.0	58.0
72.5°	60.8	58.0	58.0	55.3	55.3	49.7	47.0	47.0	47.0	47.0	47.0
75°	47.0	44.2	41.4	41.4	38.7	38.7	35.9	35.9	35.9	35.9	38.7
77.5°	33.2	33.2	30.4	30.4	27.6	27.6	27.6	27.6	27.6	27.6	30.4
80°	24.9	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
82.5°	16.6	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	16.6
85°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	11.1	8.3	8.3
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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: P238361

CATALOG NUMBER: PRS630D010-S6M24-61SWWMW

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0	1188.0
2.5°	1165.9	1165.9	1165.9	1165.9	1165.9	1163.1	1165.9	1165.9
5°	1141.0	1138.3	1138.3	1135.5	1135.5	1135.5	1135.5	1132.8
7.5°	1105.1	1102.4	1102.4	1102.4	1099.6	1099.6	1096.8	1099.6
10°	1066.4	1063.7	1060.9	1063.7	1058.2	1058.2	1058.2	1058.2
12.5°	1025.0	1022.2	1019.5	1016.7	1016.7	1014.0	1014.0	1014.0
15°	978.0	975.3	972.5	969.7	969.7	964.2	964.2	961.5
17.5°	928.3	925.5	922.8	920.0	914.5	914.5	911.7	914.5
20°	875.8	870.3	867.5	867.5	864.8	862.0	859.2	859.2
22.5°	823.3	817.8	817.8	812.3	809.5	806.7	804.0	801.2
25°	768.1	762.5	762.5	757.0	754.2	751.5	751.5	748.7
27.5°	715.6	707.3	707.3	704.5	699.0	696.2	696.2	699.0
30°	663.1	657.6	654.8	649.3	646.5	643.7	641.0	643.7
32.5°	610.6	602.3	599.5	599.5	596.8	594.0	591.2	588.5
35°	558.1	555.3	549.8	547.0	541.5	541.5	538.7	538.7
37.5°	511.1	502.8	500.1	497.3	494.5	491.8	489.0	491.8
40°	461.4	455.9	450.3	450.3	444.8	442.1	439.3	442.1
42.5°	417.2	411.7	408.9	403.4	397.8	395.1	395.1	392.3
45°	373.0	364.7	364.7	356.4	353.6	350.9	348.1	348.1
47.5°	328.8	323.2	317.7	317.7	309.4	306.7	303.9	303.9
50°	287.3	279.0	276.3	273.5	268.0	262.5	259.7	259.7
52.5°	245.9	240.4	234.8	234.8	229.3	223.8	221.0	218.3
55°	210.0	204.4	201.7	196.2	193.4	185.1	182.3	182.3
57.5°	174.1	168.5	165.8	163.0	157.5	152.0	146.4	146.4
60°	143.7	138.1	138.1	132.6	127.1	121.6	116.0	116.0
62.5°	113.3	107.7	107.7	105.0	99.5	96.7	93.9	91.2
65°	88.4	82.9	82.9	82.9	82.9	82.9	80.1	82.9
67.5°	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
70°	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
72.5°	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
75°	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
77.5°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
80°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
82.5°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
85°	8.3	11.1	11.1	11.1	11.1	11.1	8.3	8.3
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)