

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: P238345

Luminaire Tested: **PRS620D010-S6M12-61SWWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238345
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: PRS620D010-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: 1567.3 lumens
Efficiency: N/A
Efficacy: 78.4 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

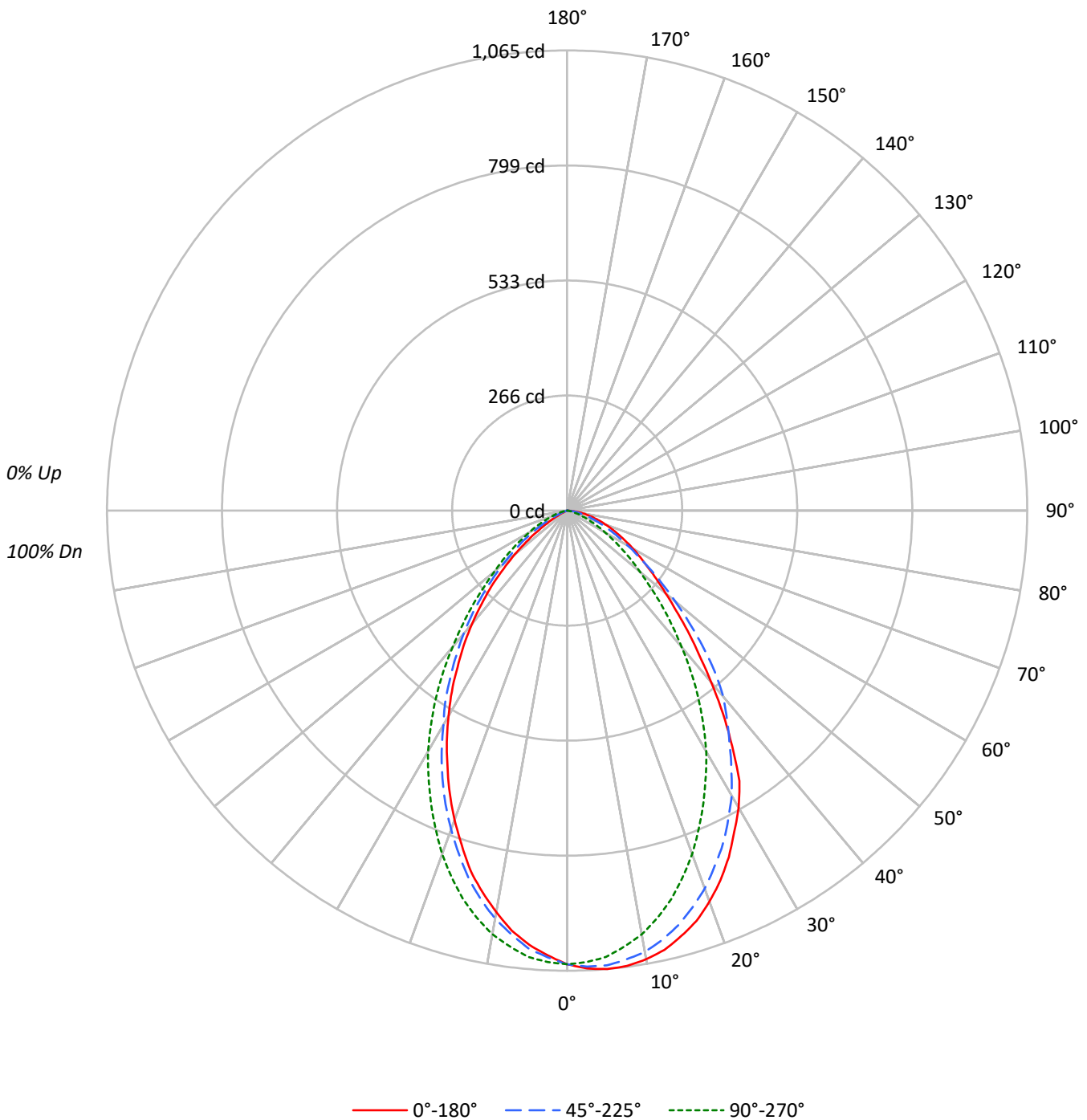
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	45208	45208	45208
5°	46038	44819	43600
10°	46098	43536	41258
15°	45453	41485	38486
20°	44133	38767	34891
25°	42048	35454	31126
30°	39475	32032	27289
35°	35006	27826	23264
40°	29142	23168	19267
45°	24039	18760	15058
50°	19907	14676	10610
55°	17100	11560	6351
60°	15130	8783	2799
65°	13265	6408	886
70°	12022	4368	541
75°	10464	2895	366
80°	9149	1612	0
85°	6422	1087	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	6.2
10°-20°	262.2	16.7
20°-30°	349.6	22.3
30°-40°	345.0	22.0
40°-50°	258.7	16.5
50°-60°	151.8	9.7
60°-70°	70.7	4.5
70°-80°	26.5	1.7
80°-90°	5.0	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°	709.5	45.3
0°-40°	1054.5	67.3
0°-60°	1465.0	93.5
0°-90°	1567.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1567.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1050	1050	1050	1050	1050	
5°	1065	1056	1037	1018	1009	101
15°	1020	994	931	881	863	287
25°	885	853	746	683	655	406
35°	666	655	529	471	443	414
45°	395	443	308	278	247	306
55°	228	232	154	128	85	206
65°	130	113	63	30	9	131
75°	63	46	17	2	2	68
85°	13	6	2	0	0	16
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°	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0
2.5°	1060.9	1060.9	1060.9	1060.9	1058.7	1058.7	1058.7	1058.7	1058.7	1056.5	1056.5
5°	1065.2	1065.2	1063.0	1063.0	1063.0	1063.0	1060.9	1060.9	1058.7	1058.7	1056.5
7.5°	1063.0	1060.9	1060.9	1060.9	1058.7	1058.7	1058.7	1056.5	1054.4	1052.2	1047.9
10°	1054.4	1054.4	1054.4	1052.2	1050.0	1050.0	1050.0	1045.7	1043.5	1039.2	1037.0
12.5°	1041.3	1039.2	1039.2	1037.0	1034.8	1034.8	1032.7	1028.3	1026.2	1021.8	1017.5
15°	1019.7	1019.7	1019.7	1017.5	1015.3	1013.1	1011.0	1008.8	1004.5	1000.1	993.6
17.5°	995.8	993.6	993.6	991.4	987.1	987.1	984.9	980.6	976.3	971.9	963.2
20°	963.2	963.2	963.2	961.1	958.9	954.6	954.6	948.1	943.7	937.2	930.7
22.5°	926.4	926.4	926.4	924.2	922.0	919.9	917.7	913.3	906.8	900.3	891.7
25°	885.1	883.0	883.0	883.0	880.8	878.6	876.5	872.1	867.8	861.3	852.6
27.5°	837.4	835.2	835.2	835.2	833.1	830.9	828.7	828.7	824.4	815.7	807.0
30°	794.0	794.0	794.0	789.7	785.3	783.2	783.2	778.8	772.3	768.0	761.5
32.5°	742.0	742.0	744.1	742.0	742.0	742.0	737.6	733.3	724.6	718.1	707.2
35°	666.0	670.4	672.5	676.9	681.2	685.6	687.7	687.7	679.0	668.2	655.2
37.5°	592.3	594.4	596.6	605.3	609.6	614.0	616.1	624.8	631.3	620.5	607.5
40°	518.5	520.7	527.2	529.4	540.2	542.4	548.9	557.6	566.2	568.4	561.9
42.5°	451.2	453.4	457.8	462.1	472.9	479.5	481.6	488.1	499.0	507.7	505.5
45°	394.8	394.8	397.0	403.5	410.0	414.4	420.9	429.6	438.2	442.6	442.6
47.5°	340.6	340.6	342.8	349.3	358.0	358.0	362.3	371.0	381.8	381.8	381.8
50°	297.2	299.4	299.4	303.7	308.1	310.2	314.6	323.3	327.6	327.6	325.4
52.5°	260.3	260.3	262.5	264.7	266.8	271.2	271.2	275.5	279.9	279.9	275.5
55°	227.8	227.8	227.8	230.0	232.1	234.3	236.5	238.6	236.5	234.3	232.1
57.5°	199.6	199.6	199.6	199.6	201.8	203.9	203.9	203.9	201.8	199.6	193.1
60°	175.7	175.7	175.7	175.7	175.7	175.7	175.7	173.6	169.2	167.0	162.7
62.5°	151.9	151.9	151.9	151.9	151.9	151.9	149.7	147.5	145.4	138.8	134.5
65°	130.2	132.3	132.3	130.2	130.2	128.0	128.0	123.7	121.5	117.2	112.8
67.5°	112.8	112.8	112.8	112.8	110.6	108.5	108.5	104.1	102.0	97.6	91.1
70°	95.5	95.5	93.3	93.3	93.3	91.1	88.9	86.8	82.4	78.1	73.8
72.5°	78.1	78.1	78.1	78.1	73.8	73.8	71.6	69.4	65.1	62.9	58.6
75°	62.9	62.9	62.9	60.7	60.7	58.6	56.4	54.2	52.1	47.7	45.6
77.5°	49.9	49.9	49.9	47.7	45.6	45.6	43.4	41.2	39.1	36.9	32.5
80°	36.9	36.9	34.7	34.7	32.5	32.5	32.5	30.4	28.2	26.0	23.9
82.5°	23.9	23.9	23.9	23.9	21.7	21.7	19.5	19.5	17.4	15.2	15.2
85°	13.0	13.0	13.0	13.0	10.8	10.8	10.8	10.8	8.7	8.7	6.5
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	4.3	2.2	2.2	2.2	2.2
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°	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0
2.5°	1054.4	1054.4	1052.2	1052.2	1052.2	1050.0	1050.0	1047.9	1047.9	1045.7	1045.7
5°	1054.4	1052.2	1050.0	1047.9	1045.7	1045.7	1043.5	1039.2	1037.0	1037.0	1032.7
7.5°	1045.7	1043.5	1039.2	1037.0	1034.8	1032.7	1028.3	1026.2	1021.8	1017.5	1015.3
10°	1032.7	1028.3	1021.8	1017.5	1017.5	1013.1	1008.8	1004.5	998.0	995.8	989.3
12.5°	1011.0	1004.5	1000.1	995.8	991.4	989.3	982.8	978.4	969.8	965.4	958.9
15°	987.1	980.6	974.1	965.4	963.2	958.9	952.4	943.7	939.4	930.7	924.2
17.5°	958.9	948.1	941.5	932.9	928.5	924.2	913.3	906.8	900.3	889.5	883.0
20°	922.0	913.3	904.7	893.8	889.5	883.0	874.3	863.4	854.8	846.1	837.4
22.5°	883.0	874.3	863.4	852.6	846.1	839.6	828.7	817.9	807.0	796.2	789.7
25°	839.6	828.7	817.9	807.0	798.4	794.0	781.0	770.2	757.1	746.3	737.6
27.5°	796.2	785.3	772.3	757.1	748.5	744.1	731.1	715.9	702.9	694.2	683.4
30°	748.5	735.4	720.3	707.2	698.6	692.1	681.2	666.0	655.2	644.3	629.1
32.5°	696.4	683.4	672.5	655.2	648.7	642.2	627.0	611.8	596.6	585.8	577.1
35°	644.3	635.7	622.6	605.3	594.4	585.8	566.2	553.2	540.2	529.4	520.7
37.5°	596.6	583.6	561.9	542.4	533.7	527.2	505.5	492.5	477.3	470.8	457.8
40°	544.5	525.0	505.5	486.0	477.3	468.6	453.4	433.9	423.0	412.2	403.5
42.5°	492.5	466.4	446.9	429.6	418.7	410.0	392.7	377.5	364.5	358.0	349.3
45°	433.9	414.4	392.7	373.1	366.6	355.8	340.6	327.6	316.7	308.1	301.6
47.5°	373.1	362.3	340.6	323.3	314.6	305.9	292.9	279.9	269.0	260.3	256.0
50°	318.9	310.2	295.0	275.5	269.0	260.3	247.3	238.6	227.8	219.1	214.8
52.5°	269.0	260.3	249.5	234.3	225.6	221.3	208.3	199.6	193.1	186.6	180.1
55°	225.6	216.9	208.3	195.3	188.7	182.2	173.6	164.9	158.4	154.0	149.7
57.5°	188.7	180.1	171.4	162.7	156.2	151.9	143.2	138.8	132.3	125.8	123.7
60°	156.2	149.7	143.2	134.5	130.2	123.7	117.2	110.6	106.3	102.0	97.6
62.5°	130.2	123.7	117.2	108.5	106.3	102.0	95.5	88.9	84.6	82.4	78.1
65°	106.3	99.8	95.5	88.9	84.6	82.4	75.9	71.6	67.3	62.9	58.6
67.5°	86.8	82.4	78.1	71.6	67.3	65.1	58.6	54.2	52.1	47.7	45.6
70°	69.4	65.1	60.7	56.4	52.1	49.9	45.6	41.2	39.1	34.7	32.5
72.5°	54.2	49.9	47.7	41.2	39.1	36.9	32.5	30.4	28.2	26.0	23.9
75°	41.2	39.1	34.7	30.4	28.2	28.2	23.9	21.7	19.5	17.4	15.2
77.5°	30.4	28.2	23.9	21.7	19.5	19.5	17.4	15.2	13.0	10.8	10.8
80°	21.7	17.4	15.2	13.0	13.0	10.8	10.8	8.7	6.5	6.5	4.3
82.5°	13.0	10.8	8.7	8.7	6.5	6.5	6.5	4.3	4.3	2.2	2.2
85°	6.5	4.3	4.3	4.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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°	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0
2.5°	1043.5	1041.3	1041.3	1041.3	1039.2	1039.2	1037.0	1037.0	1034.8	1034.8	1034.8
5°	1030.5	1028.3	1026.2	1024.0	1024.0	1021.8	1019.7	1019.7	1017.5	1015.3	1013.1
7.5°	1011.0	1008.8	1006.6	1002.3	1000.1	998.0	995.8	991.4	989.3	987.1	987.1
10°	984.9	980.6	976.3	974.1	974.1	967.6	965.4	963.2	958.9	956.7	952.4
12.5°	952.4	948.1	943.7	939.4	937.2	932.9	930.7	926.4	922.0	917.7	913.3
15°	917.7	911.2	904.7	902.5	898.2	896.0	889.5	883.0	880.8	876.5	874.3
17.5°	874.3	865.6	863.4	859.1	854.8	850.4	846.1	839.6	833.1	830.9	824.4
20°	828.7	822.2	813.6	811.4	807.0	802.7	796.2	789.7	785.3	781.0	776.7
22.5°	778.8	774.5	763.7	761.5	757.1	750.6	744.1	737.6	735.4	728.9	724.6
25°	728.9	718.1	711.6	707.2	705.1	698.6	694.2	687.7	683.4	676.9	672.5
27.5°	672.5	666.0	659.5	653.0	650.8	646.5	640.0	633.5	629.1	622.6	618.3
30°	622.6	614.0	605.3	600.9	598.8	590.1	585.8	581.4	572.7	568.4	566.2
32.5°	566.2	557.6	551.0	551.0	544.5	540.2	531.5	527.2	525.0	516.3	512.0
35°	509.8	503.3	499.0	496.8	494.6	486.0	481.6	477.3	470.8	468.6	462.1
37.5°	453.4	444.7	440.4	438.2	436.1	433.9	431.7	425.2	420.9	416.5	412.2
40°	394.8	390.5	386.2	386.2	384.0	381.8	377.5	375.3	373.1	368.8	364.5
42.5°	344.9	338.4	336.3	334.1	334.1	329.8	329.8	327.6	325.4	321.1	316.7
45°	295.0	290.7	288.5	284.2	284.2	282.0	282.0	282.0	277.7	275.5	273.4
47.5°	251.7	247.3	245.1	243.0	240.8	238.6	238.6	238.6	234.3	234.3	230.0
50°	210.4	206.1	206.1	206.1	203.9	201.8	199.6	195.3	195.3	193.1	190.9
52.5°	177.9	173.6	171.4	169.2	169.2	167.0	164.9	162.7	158.4	156.2	154.0
55°	145.4	143.2	138.8	138.8	136.7	134.5	132.3	130.2	128.0	121.5	119.3
57.5°	119.3	115.0	112.8	110.6	110.6	108.5	104.1	102.0	97.6	93.3	88.9
60°	95.5	91.1	88.9	86.8	86.8	82.4	80.3	75.9	71.6	67.3	62.9
62.5°	73.8	71.6	67.3	65.1	65.1	62.9	58.6	54.2	49.9	45.6	39.1
65°	56.4	54.2	49.9	49.9	47.7	43.4	39.1	34.7	30.4	26.0	21.7
67.5°	41.2	39.1	36.9	34.7	32.5	28.2	23.9	19.5	15.2	10.8	6.5
70°	30.4	28.2	23.9	23.9	21.7	17.4	13.0	8.7	6.5	4.3	4.3
72.5°	19.5	17.4	15.2	13.0	10.8	8.7	4.3	2.2	2.2	2.2	2.2
75°	13.0	10.8	8.7	6.5	6.5	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	8.7	6.5	4.3	2.2	2.2	0.0	2.2	2.2	0.0	2.2	2.2
80°	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.2	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°	2.2	2.2	2.2	2.2	2.2	0.0	2.2	0.0	2.2	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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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0	1050.0
2.5°	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1032.7	1030.5
5°	1011.0	1011.0	1011.0	1011.0	1008.8	1008.8	1008.8	1008.8
7.5°	984.9	982.8	980.6	980.6	980.6	978.4	978.4	980.6
10°	950.2	950.2	948.1	948.1	945.9	945.9	945.9	943.7
12.5°	911.2	909.0	909.0	904.7	906.8	904.7	902.5	904.7
15°	867.8	865.6	863.4	863.4	863.4	861.3	861.3	863.4
17.5°	822.2	817.9	815.7	817.9	813.6	813.6	813.6	811.4
20°	772.3	768.0	765.8	765.8	763.7	761.5	761.5	761.5
22.5°	720.3	718.1	713.8	713.8	711.6	711.6	709.4	709.4
25°	670.4	663.9	663.9	661.7	657.3	659.5	655.2	655.2
27.5°	614.0	611.8	611.8	609.6	605.3	603.1	600.9	603.1
30°	561.9	557.6	555.4	553.2	553.2	553.2	551.0	548.9
32.5°	509.8	505.5	501.1	501.1	501.1	496.8	496.8	496.8
35°	457.8	455.6	451.2	449.1	449.1	446.9	444.7	442.6
37.5°	407.9	403.5	401.4	397.0	397.0	392.7	390.5	392.7
40°	358.0	353.6	351.5	351.5	347.1	342.8	342.8	342.8
42.5°	312.4	305.9	305.9	301.6	297.2	295.0	290.7	292.9
45°	269.0	262.5	260.3	260.3	251.7	249.5	247.3	247.3
47.5°	225.6	223.5	219.1	214.8	208.3	201.8	199.6	199.6
50°	186.6	180.1	177.9	175.7	167.0	162.7	158.4	158.4
52.5°	149.7	143.2	138.8	136.7	130.2	123.7	121.5	119.3
55°	115.0	108.5	106.3	104.1	95.5	91.1	86.8	84.6
57.5°	84.6	80.3	75.9	71.6	65.1	60.7	56.4	54.2
60°	58.6	52.1	49.9	47.7	41.2	36.9	32.5	32.5
62.5°	36.9	30.4	28.2	26.0	21.7	17.4	17.4	17.4
65°	15.2	10.8	10.8	10.8	8.7	8.7	8.7	8.7
67.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
70°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
72.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	2.2	2.2	2.2	2.2	0.0	0.0	2.2	2.2
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)