

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: PORTFOLIO

Report Number: P245395

Luminaire Tested: **LSR8B15D010 EC8B15835 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B15835 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1574.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

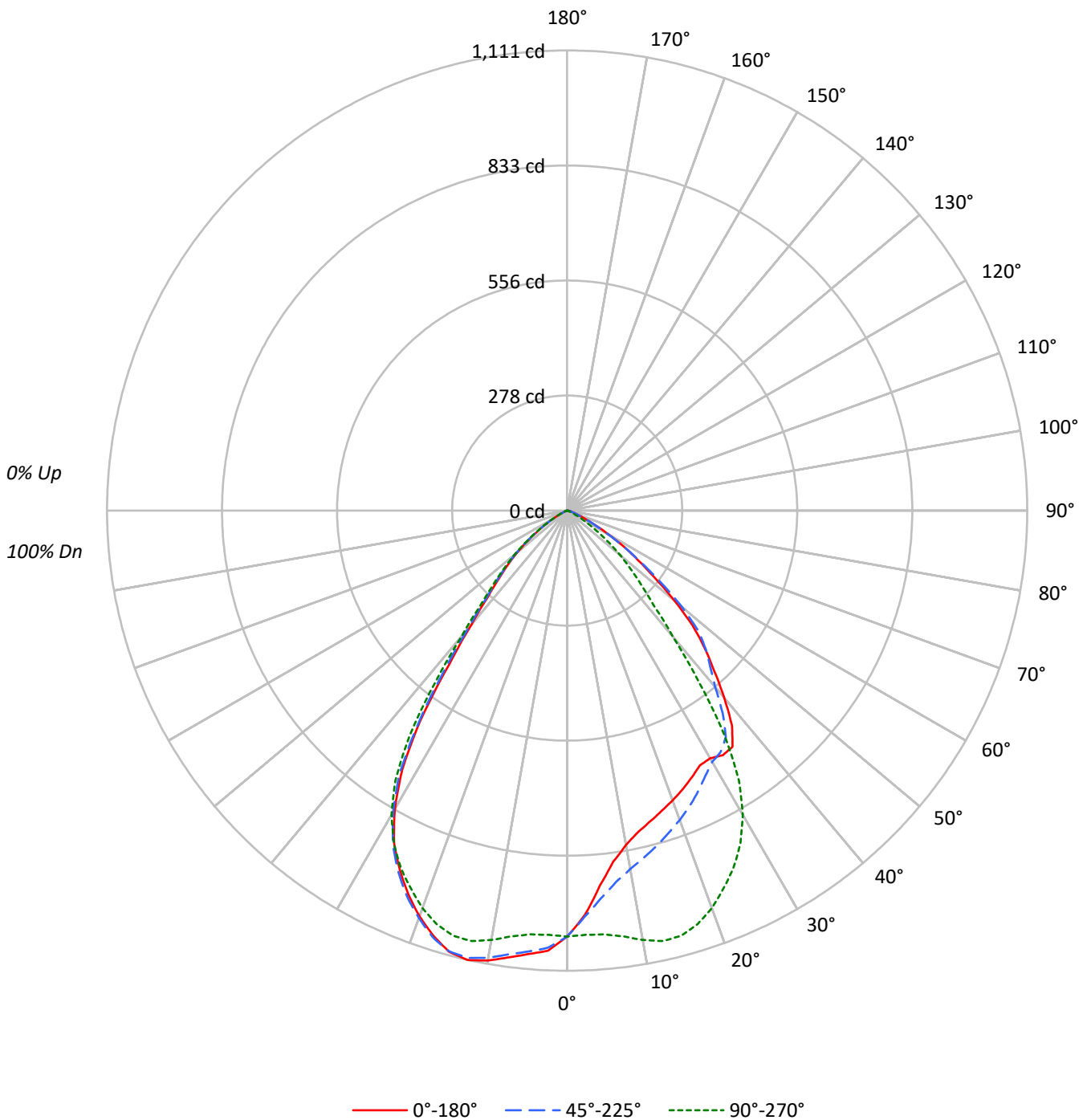
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	31709	31709	31709
5°	28131	31787	33276
10°	25651	32965	34540
15°	24789	33929	35200
20°	24434	33511	34203
25°	24195	32357	32558
30°	24590	30198	29639
35°	26208	24988	23178
40°	23750	15997	14487
45°	20501	10946	10191
50°	16176	7983	7517
55°	11225	4908	4618
60°	7148	2485	2214
65°	3568	985	752
70°	1974	487	270
75°	1418	357	131
80°	1154	249	53
85°	1238	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	6.1
10°-20°	276.8	17.6
20°-30°	401.8	25.5
30°-40°	395.7	25.1
40°-50°	248.0	15.8
50°-60°	119.7	7.6
60°-70°	29.0	1.8
70°-80°	5.9	0.4
80°-90°	1.3	0.1
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°	774.4	49.2
0°-40°	1170.1	74.3
0°-60°	1537.8	97.7
0°-90°	1574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1574.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1028	1028	1028	1028	1028	
5°	909	940	1027	1068	1075	84
15°	776	838	1063	1102	1103	220
25°	711	748	951	964	957	329
35°	696	668	664	626	616	421
45°	470	473	251	240	234	359
55°	209	216	91	90	86	192
65°	49	48	14	12	10	56
75°	12	10	3	1	1	13
85°	4	3	0	0	0	4
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°	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3
2.5°	977.5	971.3	959.6	973.7	973.7	965.9	981.5	972.1	979.6	991.5	981.0
5°	908.8	903.7	894.0	908.8	910.7	903.4	922.4	915.3	926.4	941.0	939.6
7.5°	854.5	848.1	839.1	854.5	857.5	852.7	870.8	867.5	882.1	901.0	904.3
10°	819.2	812.4	804.6	818.6	820.8	817.5	835.9	834.0	848.3	870.2	878.9
12.5°	794.0	788.4	779.7	794.6	797.0	792.4	809.7	808.9	823.7	846.7	857.5
15°	776.5	769.7	761.9	774.6	777.8	772.7	789.2	787.5	802.7	825.4	837.5
17.5°	760.0	753.8	745.7	757.6	760.8	755.4	771.6	768.9	781.9	803.5	815.9
20°	744.6	737.8	730.5	742.7	744.6	738.4	754.6	751.1	762.7	782.7	794.8
22.5°	728.6	721.6	714.1	725.9	727.8	721.6	736.5	732.4	743.2	761.3	772.4
25°	711.1	704.6	697.0	708.1	709.7	703.0	718.6	713.5	723.0	738.9	748.1
27.5°	693.5	687.3	678.9	690.3	691.1	684.6	698.9	691.9	699.7	714.3	722.2
30°	690.6	683.5	674.9	684.1	684.3	676.0	689.5	681.1	685.4	696.2	700.8
32.5°	700.0	693.0	684.1	691.6	690.8	681.6	694.6	684.3	685.7	691.4	690.3
35°	696.2	687.8	677.3	685.4	685.4	674.3	687.3	675.2	673.8	674.6	667.9
37.5°	653.3	646.8	636.8	644.6	643.8	635.4	645.4	635.4	630.8	629.0	616.8
40°	590.0	582.2	574.6	583.0	583.8	574.9	587.9	576.5	575.2	569.8	555.5
42.5°	526.0	523.3	516.0	523.0	526.8	519.3	530.1	524.7	525.5	524.1	510.6
45°	470.1	465.5	460.1	468.2	470.6	466.9	477.7	474.4	477.7	484.4	473.3
47.5°	409.8	405.3	399.3	408.0	412.3	405.3	414.4	413.4	418.2	429.8	428.8
50°	337.2	333.9	332.8	333.9	336.6	333.4	339.9	340.1	343.4	359.3	360.4
52.5°	266.9	266.1	262.3	265.8	265.8	260.7	267.2	264.2	267.5	278.3	285.3
55°	208.8	208.0	205.6	208.8	205.3	203.4	205.3	202.4	199.9	208.3	215.6
57.5°	162.6	159.9	157.0	158.3	158.0	154.0	156.2	152.6	150.8	153.7	160.2
60°	115.9	115.1	112.4	113.7	114.8	111.8	114.0	112.4	109.1	111.6	111.8
62.5°	77.0	77.5	75.9	76.2	75.4	74.8	76.2	77.0	76.2	75.1	75.4
65°	48.9	48.6	48.4	48.6	49.2	48.1	48.9	49.4	48.6	48.6	48.4
67.5°	32.4	31.6	30.8	31.3	31.9	31.1	31.9	31.6	31.9	31.6	30.8
70°	21.9	21.6	21.3	21.6	21.6	21.1	21.6	21.3	21.6	21.3	20.5
72.5°	15.9	15.9	15.7	15.9	15.9	15.4	15.7	15.1	15.4	15.1	14.6
75°	11.9	11.9	11.6	11.9	11.6	11.3	11.6	11.3	10.8	10.8	10.3
77.5°	8.6	8.6	8.6	8.6	8.6	8.4	8.4	8.1	7.8	7.6	7.6
80°	6.5	6.2	6.2	6.2	6.2	5.9	6.2	5.9	5.7	5.4	5.1
82.5°	4.6	4.9	4.6	4.6	4.6	4.3	4.6	4.3	4.3	4.1	3.5
85°	3.5	3.5	3.5	3.5	3.5	3.2	3.2	3.2	3.0	3.0	2.7
87.5°	1.9	1.9	1.9	2.2	1.9	1.9	1.9	1.6	1.6	1.4	1.4
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°	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3
2.5°	995.0	996.4	993.4	998.0	1015.8	1001.5	1007.5	1009.4	1022.9	1025.3	1023.7
5°	957.2	963.2	966.9	977.2	996.9	986.7	997.2	1003.9	1021.2	1026.9	1028.3
7.5°	927.5	939.9	949.1	965.9	989.1	981.3	997.2	1008.3	1029.3	1036.6	1040.1
10°	905.3	924.2	940.2	963.2	989.4	984.2	1005.0	1020.7	1044.2	1052.8	1057.2
12.5°	888.6	911.5	932.9	962.1	990.4	988.0	1013.1	1031.0	1055.8	1064.5	1069.6
15°	870.2	896.7	921.5	954.2	984.8	984.2	1011.2	1030.2	1055.5	1062.8	1067.7
17.5°	848.3	876.7	904.0	939.4	969.6	970.2	997.5	1016.1	1041.0	1046.9	1050.1
20°	826.2	854.3	881.6	918.0	947.8	948.6	975.3	992.6	1016.4	1021.2	1022.0
22.5°	802.7	828.9	856.2	892.4	921.0	921.5	948.0	964.2	984.5	986.9	989.1
25°	775.9	801.6	827.3	863.2	890.5	892.1	916.1	930.5	949.1	951.0	951.8
27.5°	748.1	769.2	793.8	824.6	852.1	851.0	873.7	889.9	906.7	905.6	905.3
30°	720.0	737.6	752.7	782.4	802.7	803.5	824.8	832.7	850.2	848.1	847.8
32.5°	700.3	704.9	708.9	724.1	743.2	736.5	751.1	760.8	773.0	772.1	772.4
35°	664.1	655.7	643.5	645.7	657.3	646.8	654.6	654.3	666.8	663.8	667.3
37.5°	602.2	578.4	551.4	536.0	538.2	524.9	522.2	528.7	533.0	524.7	527.6
40°	536.3	501.2	459.0	423.9	422.0	405.5	402.6	396.1	404.4	397.4	399.6
42.5°	487.7	441.2	385.8	343.1	333.9	320.1	312.0	311.0	313.4	308.5	307.2
45°	450.4	400.9	337.4	288.5	278.3	263.4	255.3	252.3	252.6	251.0	249.6
47.5°	406.6	356.9	292.6	242.6	231.0	216.9	208.8	206.9	208.0	205.9	204.2
50°	346.1	301.5	242.9	197.2	187.0	176.7	170.2	168.3	168.0	166.4	165.3
52.5°	281.0	244.0	193.2	155.1	145.9	135.9	131.3	128.9	129.1	127.5	125.9
55°	217.5	194.5	149.7	117.3	108.9	101.0	96.7	93.7	92.9	91.3	90.5
57.5°	161.8	146.4	112.1	84.6	79.7	72.1	67.8	64.3	63.8	62.9	62.7
60°	113.5	102.4	78.9	60.2	54.6	50.0	45.7	42.1	40.5	40.3	39.4
62.5°	73.5	66.7	51.9	40.3	35.9	32.7	28.4	25.9	24.9	23.8	24.0
65°	45.7	40.5	32.4	25.9	23.5	21.1	17.8	15.7	14.6	13.5	13.8
67.5°	28.4	25.4	20.5	16.8	15.1	13.2	10.8	9.2	8.4	7.6	7.0
70°	19.2	16.5	14.0	11.9	10.8	9.5	7.8	6.5	5.9	5.4	4.9
72.5°	13.5	12.2	10.3	8.9	8.1	7.0	5.9	5.1	4.6	4.1	3.5
75°	9.7	8.6	7.6	6.5	5.9	5.4	4.6	4.1	3.5	3.0	2.4
77.5°	7.0	6.2	5.4	4.9	4.6	3.8	3.2	3.0	2.7	2.2	1.6
80°	4.9	4.3	3.5	3.2	3.2	2.7	2.4	2.2	1.9	1.4	1.1
82.5°	3.2	3.0	2.7	2.4	2.2	1.9	1.9	1.4	1.1	0.8	0.5
85°	2.4	2.2	1.9	1.6	1.6	1.4	1.1	0.8	0.8	0.5	0.3
87.5°	1.4	1.4	1.1	0.8	0.8	0.5	0.5	0.3	0.3	0.3	0.3
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°	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3
2.5°	1037.4	1038.3	1042.9	1039.3	1048.3	1054.7	1051.5	1058.8	1056.4	1055.8	1064.2
5°	1044.5	1046.4	1052.6	1049.3	1059.1	1066.1	1062.8	1070.9	1068.5	1068.0	1076.6
7.5°	1058.0	1059.9	1065.3	1062.6	1072.8	1079.1	1075.0	1083.9	1080.7	1080.4	1088.8
10°	1075.0	1077.7	1082.3	1079.6	1089.1	1094.5	1090.4	1099.0	1096.1	1094.7	1103.9
12.5°	1087.7	1089.6	1094.2	1092.0	1101.2	1105.3	1101.7	1110.1	1106.3	1105.3	1113.4
15°	1084.7	1086.6	1090.4	1088.5	1097.2	1100.9	1096.3	1105.5	1101.7	1099.6	1106.9
17.5°	1065.8	1066.9	1069.6	1067.7	1076.9	1079.3	1074.2	1083.4	1079.9	1076.1	1083.1
20°	1038.0	1037.4	1039.1	1038.3	1045.8	1047.2	1043.9	1050.7	1046.6	1044.5	1048.5
22.5°	1003.4	1002.9	1003.9	1001.8	1009.4	1010.2	1005.3	1013.4	1009.4	1005.3	1012.1
25°	965.0	962.1	961.5	962.3	967.5	968.3	963.2	969.1	964.0	960.7	967.2
27.5°	917.8	914.0	913.2	914.0	919.1	915.3	911.0	915.3	910.2	907.2	911.3
30°	859.4	854.0	851.6	850.0	855.4	854.0	844.0	848.9	840.8	836.4	839.4
32.5°	780.8	777.8	771.3	767.5	772.7	762.4	756.2	756.2	753.0	745.7	747.3
35°	671.6	667.0	661.1	657.9	658.7	644.9	634.6	636.8	626.0	624.1	624.9
37.5°	533.6	526.0	523.9	517.1	518.7	506.6	492.5	492.8	487.1	481.2	479.3
40°	400.9	399.6	397.4	391.7	393.9	380.7	375.3	375.5	371.8	367.4	369.6
42.5°	309.9	305.6	304.2	302.3	302.9	300.7	293.7	294.5	291.2	290.2	289.1
45°	251.8	247.2	244.0	245.6	245.6	243.2	240.5	242.1	240.5	238.3	239.4
47.5°	207.5	203.2	201.5	201.3	203.2	201.5	198.8	199.4	199.1	198.3	197.8
50°	165.6	164.5	163.2	162.4	163.2	162.6	160.2	161.6	162.4	159.7	160.5
52.5°	126.2	126.2	125.9	124.0	125.6	124.0	123.7	124.3	123.5	122.4	122.1
55°	92.4	91.6	90.2	90.0	90.5	90.0	89.4	89.7	90.2	87.5	87.5
57.5°	63.2	62.7	61.9	61.9	62.9	61.6	60.8	61.9	60.8	59.7	59.7
60°	40.5	40.3	39.4	39.4	39.4	39.2	38.4	38.6	39.2	37.6	37.8
62.5°	24.3	23.5	23.2	23.0	23.2	23.0	23.0	22.7	22.4	22.4	21.6
65°	13.2	12.7	12.2	12.4	12.4	12.2	12.2	12.2	11.6	11.3	11.1
67.5°	6.8	6.2	6.2	5.9	5.9	5.9	5.9	5.7	5.7	5.7	5.4
70°	4.3	4.1	3.8	3.8	3.8	3.5	3.5	3.5	3.5	3.5	3.2
72.5°	3.0	2.7	2.4	2.4	2.4	2.2	2.2	2.2	2.2	1.9	1.9
75°	2.2	1.9	1.6	1.6	1.6	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.5
80°	0.8	0.8	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
82.5°	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	0.3	0.0	0.0	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	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3	1028.3
2.5°	1061.2	1059.1	1060.4	1070.4	1066.1	1064.7	1053.4	1063.4
5°	1073.9	1072.3	1072.3	1083.6	1078.5	1077.4	1066.4	1075.0
7.5°	1085.8	1084.2	1084.5	1096.1	1092.0	1090.4	1079.3	1088.0
10°	1101.2	1100.1	1100.4	1111.5	1107.2	1105.5	1094.2	1103.1
12.5°	1110.4	1108.8	1108.8	1120.7	1115.8	1113.4	1102.6	1111.2
15°	1103.4	1100.9	1100.9	1112.8	1107.4	1103.9	1094.5	1102.6
17.5°	1079.3	1076.9	1076.9	1087.2	1083.1	1078.0	1068.2	1075.8
20°	1045.8	1042.9	1042.0	1053.9	1048.3	1043.7	1035.0	1042.3
22.5°	1008.0	1006.6	1004.2	1016.1	1011.0	1006.1	996.9	1002.6
25°	962.6	960.4	958.0	969.6	964.5	959.6	952.3	956.9
27.5°	906.1	906.4	905.1	914.3	909.1	906.4	897.5	905.1
30°	837.8	834.8	833.7	844.5	839.7	836.2	825.1	832.4
32.5°	748.6	744.3	738.6	750.8	742.4	739.5	730.0	740.5
35°	619.0	617.6	612.5	622.7	618.1	612.7	606.8	615.7
37.5°	478.5	479.5	479.0	481.7	479.0	475.5	469.0	465.8
40°	365.3	362.6	360.4	365.3	359.6	359.6	355.8	359.9
42.5°	286.4	285.3	288.0	289.1	285.8	285.3	284.8	284.5
45°	236.4	236.4	236.9	238.0	236.9	236.4	234.8	233.7
47.5°	194.8	195.9	194.8	198.3	196.4	195.9	192.6	194.0
50°	157.8	156.4	157.8	158.9	159.1	157.5	155.9	156.7
52.5°	122.4	120.2	119.7	121.3	120.2	120.2	119.1	118.9
55°	86.2	87.0	85.6	87.0	86.5	85.6	84.8	85.9
57.5°	58.4	58.6	58.1	58.9	57.5	57.8	57.5	57.3
60°	37.8	36.7	36.7	37.6	36.2	36.2	35.9	35.9
62.5°	21.6	21.3	21.3	21.1	20.8	20.8	20.8	20.3
65°	11.1	10.8	10.5	10.5	10.5	10.5	10.3	10.3
67.5°	5.4	5.1	5.1	5.4	5.1	5.1	5.1	5.1
70°	3.2	3.2	3.0	3.2	3.0	3.0	3.0	3.0
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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)