

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: P245389

Luminaire Tested: **LSR8B15D010 EC8B15830 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245389  
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 EC8B15830 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1514.0 lumens  
Efficiency: N/A  
Efficacy: 105.1 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

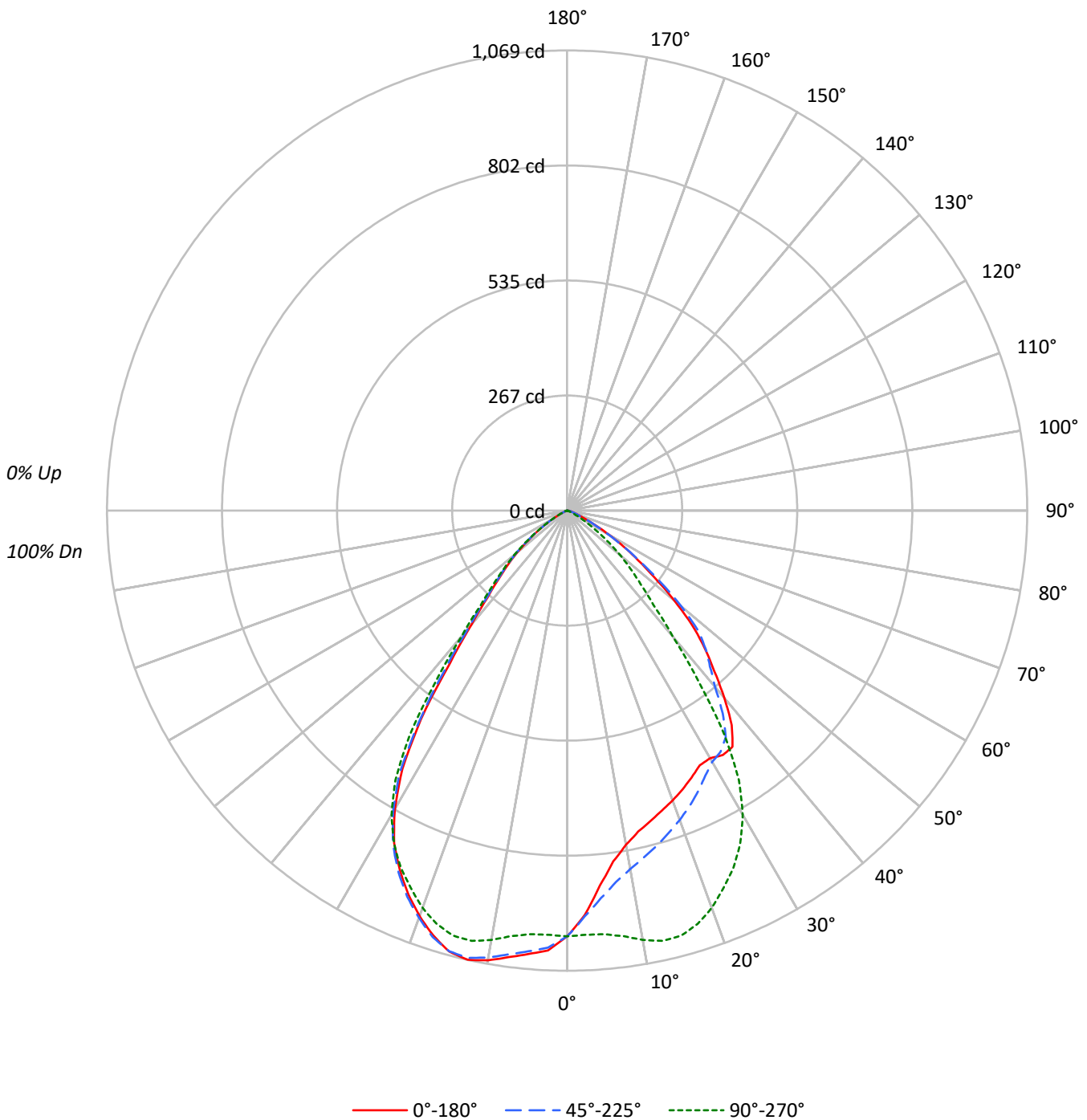
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	30500	30500	30500
5°	27060	30576	32007
10°	24671	31710	33222
15°	23844	32636	33856
20°	23502	32234	32901
25°	23272	31122	31319
30°	23650	29044	28510
35°	25210	24036	22293
40°	22848	15389	13932
45°	19720	10527	9803
50°	15558	7680	7229
55°	10801	4720	4441
60°	6876	2387	2134
65°	3429	949	722
70°	1893	469	261
75°	1358	346	119
80°	1101	231	53
85°	1203	177	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.2	6.1
10°-20°	266.3	17.6
20°-30°	386.4	25.5
30°-40°	380.6	25.1
40°-50°	238.6	15.8
50°-60°	115.1	7.6
60°-70°	27.9	1.8
70°-80°	5.6	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°	744.9	49.2
0°-40°	1125.5	74.3
0°-60°	1479.2	97.7
0°-90°	1514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1514.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	989	989	989	989	989	
5°	874	904	988	1028	1034	81
15°	747	806	1022	1060	1060	211
25°	684	720	915	927	920	317
35°	670	642	638	602	592	405
45°	452	455	241	231	225	346
55°	201	207	88	87	83	185
65°	47	46	13	11	10	54
75°	11	10	3	1	1	13
85°	3	3	0	0	0	3
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°	989.1	989.1	989.1	989.1	989.1	989.1	989.1	989.1	989.1	989.1	989.1
2.5°	940.2	934.2	923.1	936.6	936.6	929.0	944.1	935.0	942.3	953.7	943.6
5°	874.2	869.3	859.9	874.2	876.0	869.0	887.2	880.4	891.1	905.1	903.8
7.5°	822.0	815.7	807.2	822.0	824.8	820.1	837.6	834.4	848.5	866.7	869.8
10°	787.9	781.4	773.9	787.4	789.5	786.4	804.0	802.2	816.0	837.0	845.4
12.5°	763.8	758.3	750.0	764.3	766.6	762.2	778.8	778.1	792.3	814.4	824.8
15°	746.9	740.4	732.8	745.0	748.2	743.2	759.1	757.5	772.1	793.9	805.6
17.5°	731.0	725.0	717.2	728.7	731.8	726.6	742.2	739.6	752.1	772.9	784.8
20°	716.2	709.7	702.7	714.4	716.2	710.2	725.8	722.4	733.6	752.8	764.5
22.5°	700.9	694.1	686.8	698.3	700.1	694.1	708.4	704.5	714.9	732.3	743.0
25°	684.0	677.7	670.5	681.1	682.7	676.2	691.3	686.3	695.4	710.7	719.6
27.5°	667.1	661.1	653.1	664.0	664.7	658.5	672.3	665.5	673.1	687.1	694.6
30°	664.2	657.5	649.2	658.0	658.3	650.2	663.2	655.1	659.3	669.7	674.1
32.5°	673.3	666.6	658.0	665.3	664.5	655.7	668.1	658.3	659.6	665.0	664.0
35°	669.7	661.6	651.5	659.3	659.3	648.6	661.1	649.4	648.1	648.9	642.4
37.5°	628.4	622.1	612.5	620.0	619.3	611.2	620.8	611.2	606.8	605.0	593.3
40°	567.6	560.0	552.7	560.8	561.6	553.0	565.5	554.6	553.3	548.1	534.3
42.5°	506.0	503.4	496.4	503.1	506.7	499.5	509.9	504.7	505.4	504.1	491.2
45°	452.2	447.8	442.6	450.4	452.7	449.1	459.5	456.3	459.5	465.9	455.3
47.5°	394.2	389.8	384.1	392.4	396.6	389.8	398.6	397.6	402.3	413.5	412.4
50°	324.3	321.2	320.2	321.2	323.8	320.7	326.9	327.2	330.3	345.6	346.7
52.5°	256.8	256.0	252.3	255.7	255.7	250.8	257.0	254.2	257.3	267.7	274.4
55°	200.9	200.1	197.8	200.9	197.5	195.7	197.5	194.6	192.3	200.4	207.4
57.5°	156.4	153.8	151.0	152.3	152.0	148.1	150.2	146.8	145.0	147.9	154.1
60°	111.5	110.7	108.1	109.4	110.4	107.6	109.7	108.1	105.0	107.3	107.6
62.5°	74.1	74.6	73.0	73.3	72.5	72.0	73.3	74.1	73.3	72.2	72.5
65°	47.0	46.8	46.5	46.8	47.3	46.3	47.0	47.6	46.8	46.8	46.5
67.5°	31.2	30.4	29.6	30.1	30.7	29.9	30.7	30.4	30.7	30.4	29.6
70°	21.0	20.8	20.5	20.8	20.8	20.3	20.8	20.5	20.8	20.5	19.8
72.5°	15.3	15.3	15.1	15.3	15.3	14.8	15.1	14.6	14.8	14.6	14.0
75°	11.4	11.4	11.2	11.4	11.2	10.9	11.2	10.9	10.4	10.4	9.9
77.5°	8.3	8.3	8.3	8.3	8.3	8.1	8.1	7.8	7.5	7.3	7.3
80°	6.2	6.0	6.0	6.0	6.0	5.7	6.0	5.7	5.5	5.2	4.9
82.5°	4.4	4.7	4.4	4.4	4.4	4.2	4.4	4.2	4.2	3.9	3.4
85°	3.4	3.4	3.4	3.4	3.4	3.1	3.1	3.1	2.9	2.9	2.6
87.5°	1.8	1.8	1.8	2.1	1.8	1.8	1.8	1.6	1.6	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°	989.1	989.1	989.1	989.1	989.1	989.1	989.1	989.1	989.1	989.1	989.1
2.5°	957.1	958.4	955.5	960.0	977.1	963.3	969.1	970.9	983.9	986.2	984.6
5°	920.7	926.4	930.1	940.0	958.9	949.0	959.2	965.7	982.3	987.8	989.1
7.5°	892.1	904.1	912.9	929.0	951.4	943.8	959.2	969.8	990.1	997.1	1000.5
10°	870.8	889.0	904.3	926.4	951.6	946.7	966.7	981.8	1004.4	1012.7	1016.9
12.5°	854.7	876.8	897.3	925.4	952.7	950.3	974.5	991.7	1015.6	1023.9	1028.8
15°	837.0	862.5	886.4	917.9	947.2	946.7	972.7	990.9	1015.3	1022.3	1027.0
17.5°	816.0	843.3	869.5	903.6	932.7	933.2	959.4	977.4	1001.3	1007.0	1010.1
20°	794.7	821.7	848.0	883.0	911.6	912.4	938.1	954.8	977.6	982.3	983.1
22.5°	772.1	797.3	823.5	858.4	885.9	886.4	911.9	927.5	947.0	949.3	951.4
25°	746.3	771.0	795.7	830.3	856.5	858.1	881.2	895.0	912.9	914.7	915.5
27.5°	719.6	739.9	763.5	793.1	819.6	818.6	840.4	856.0	872.1	871.1	870.8
30°	692.6	709.4	724.0	752.6	772.1	772.9	793.4	800.9	817.8	815.7	815.5
32.5°	673.6	678.0	681.9	696.5	714.9	708.4	722.4	731.8	743.5	742.7	743.0
35°	638.8	630.7	619.0	621.1	632.3	622.1	629.7	629.4	641.4	638.5	641.9
37.5°	579.3	556.4	530.4	515.6	517.7	504.9	502.3	508.6	512.7	504.7	507.5
40°	515.8	482.1	441.5	407.7	405.9	390.1	387.2	381.0	389.0	382.3	384.3
42.5°	469.1	424.4	371.1	330.0	321.2	307.9	300.1	299.1	301.4	296.8	295.5
45°	433.2	385.6	324.6	277.5	267.7	253.4	245.6	242.7	243.0	241.4	240.1
47.5°	391.1	343.3	281.4	233.4	222.2	208.7	200.9	199.1	200.1	198.0	196.5
50°	332.9	290.0	233.6	189.7	179.8	170.0	163.7	161.9	161.6	160.1	159.0
52.5°	270.3	234.7	185.8	149.2	140.3	130.7	126.3	124.0	124.2	122.7	121.1
55°	209.2	187.1	144.0	112.8	104.7	97.2	93.0	90.2	89.4	87.8	87.1
57.5°	155.7	140.8	107.8	81.3	76.7	69.4	65.2	61.8	61.3	60.5	60.3
60°	109.1	98.5	75.9	58.0	52.5	48.1	43.9	40.5	39.0	38.7	37.9
62.5°	70.7	64.2	49.9	38.7	34.6	31.4	27.3	24.9	23.9	22.9	23.1
65°	43.9	39.0	31.2	24.9	22.6	20.3	17.2	15.1	14.0	13.0	13.3
67.5°	27.3	24.4	19.8	16.1	14.6	12.7	10.4	8.8	8.1	7.3	6.8
70°	18.5	15.9	13.5	11.4	10.4	9.1	7.5	6.2	5.7	5.2	4.7
72.5°	13.0	11.7	9.9	8.6	7.8	6.8	5.7	4.9	4.4	3.9	3.4
75°	9.4	8.3	7.3	6.2	5.7	5.2	4.4	3.9	3.4	2.9	2.3
77.5°	6.8	6.0	5.2	4.7	4.4	3.6	3.1	2.9	2.6	2.1	1.6
80°	4.7	4.2	3.4	3.1	3.1	2.6	2.3	2.1	1.8	1.3	1.0
82.5°	3.1	2.9	2.6	2.3	2.1	1.8	1.8	1.3	1.0	0.8	0.5
85°	2.3	2.1	1.8	1.6	1.6	1.3	1.0	0.8	0.8	0.5	0.3
87.5°	1.3	1.3	1.0	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°	989.1	989.1	989.1	989.1	989.1	989.1	989.1	989.1	989.1	989.1	989.1
2.5°	997.9	998.7	1003.1	999.7	1008.3	1014.5	1011.4	1018.4	1016.1	1015.6	1023.6
5°	1004.7	1006.5	1012.5	1009.3	1018.7	1025.4	1022.3	1030.1	1027.8	1027.3	1035.6
7.5°	1017.7	1019.5	1024.7	1022.1	1031.9	1037.9	1034.0	1042.6	1039.5	1039.2	1047.3
10°	1034.0	1036.6	1041.0	1038.4	1047.5	1052.7	1048.8	1057.2	1054.3	1053.0	1061.8
12.5°	1046.2	1048.1	1052.5	1050.4	1059.2	1063.1	1059.8	1067.8	1064.2	1063.1	1070.9
15°	1043.4	1045.2	1048.8	1047.0	1055.3	1059.0	1054.6	1063.4	1059.8	1057.7	1064.7
17.5°	1025.2	1026.2	1028.8	1027.0	1035.8	1038.2	1033.2	1042.1	1038.7	1035.1	1041.8
20°	998.4	997.9	999.5	998.7	1006.0	1007.3	1004.1	1010.6	1006.7	1004.7	1008.6
22.5°	965.2	964.6	965.7	963.6	970.9	971.7	967.0	974.8	970.9	967.0	973.5
25°	928.3	925.4	924.9	925.7	930.6	931.4	926.4	932.2	927.2	924.1	930.3
27.5°	882.8	879.1	878.4	879.1	884.1	880.4	876.3	880.4	875.5	872.6	876.5
30°	826.6	821.4	819.1	817.6	822.7	821.4	811.8	816.5	808.7	804.6	807.4
32.5°	751.0	748.2	741.9	738.3	743.2	733.4	727.4	727.4	724.3	717.2	718.8
35°	646.0	641.6	635.9	632.8	633.6	620.3	610.4	612.5	602.1	600.3	601.1
37.5°	513.2	506.0	503.9	497.4	499.0	487.3	473.7	474.0	468.5	462.8	461.0
40°	385.6	384.3	382.3	376.8	378.9	366.2	361.0	361.2	357.6	353.4	355.5
42.5°	298.1	293.9	292.6	290.8	291.3	289.2	282.5	283.3	280.1	279.1	278.1
45°	242.2	237.8	234.7	236.2	236.2	233.9	231.3	232.8	231.3	229.2	230.2
47.5°	199.6	195.4	193.9	193.6	195.4	193.9	191.3	191.8	191.5	190.7	190.2
50°	159.3	158.3	157.0	156.2	157.0	156.4	154.1	155.4	156.2	153.6	154.4
52.5°	121.4	121.4	121.1	119.3	120.8	119.3	119.0	119.5	118.8	117.7	117.5
55°	88.9	88.1	86.8	86.5	87.1	86.5	86.0	86.3	86.8	84.2	84.2
57.5°	60.8	60.3	59.5	59.5	60.5	59.3	58.5	59.5	58.5	57.4	57.4
60°	39.0	38.7	37.9	37.9	37.9	37.7	36.9	37.2	37.7	36.1	36.4
62.5°	23.4	22.6	22.3	22.1	22.3	22.1	22.1	21.8	21.6	21.6	20.8
65°	12.7	12.2	11.7	12.0	12.0	11.7	11.7	11.7	11.2	10.9	10.7
67.5°	6.5	6.0	6.0	5.7	5.7	5.7	5.7	5.5	5.5	5.5	5.2
70°	4.2	3.9	3.6	3.6	3.6	3.4	3.4	3.4	3.4	3.4	3.1
72.5°	2.9	2.6	2.3	2.3	2.3	2.1	2.1	2.1	2.1	1.8	1.8
75°	2.1	1.8	1.6	1.6	1.6	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	1.0	1.0	1.0	1.0	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°	989.1	989.1	989.1	989.1	989.1	989.1	989.1	989.1
2.5°	1020.8	1018.7	1020.0	1029.6	1025.4	1024.1	1013.2	1022.8
5°	1033.0	1031.4	1031.4	1042.3	1037.4	1036.4	1025.7	1034.0
7.5°	1044.4	1042.9	1043.1	1054.3	1050.4	1048.8	1038.2	1046.5
10°	1059.2	1058.2	1058.5	1069.1	1064.9	1063.4	1052.5	1061.0
12.5°	1068.1	1066.5	1066.5	1077.9	1073.3	1070.9	1060.5	1068.8
15°	1061.3	1059.0	1059.0	1070.4	1065.2	1061.8	1052.7	1060.5
17.5°	1038.2	1035.8	1035.8	1045.7	1041.8	1036.9	1027.5	1034.8
20°	1006.0	1003.1	1002.3	1013.8	1008.3	1003.9	995.6	1002.6
22.5°	969.6	968.3	965.9	977.4	972.4	967.8	958.9	964.4
25°	925.9	923.8	921.5	932.7	927.7	923.1	916.0	920.5
27.5°	871.6	871.9	870.6	879.4	874.5	871.9	863.3	870.6
30°	805.9	803.0	802.0	812.4	807.7	804.3	793.6	800.7
32.5°	720.1	715.9	710.5	722.2	714.1	711.3	702.2	712.3
35°	595.4	594.1	589.1	599.0	594.6	589.4	583.7	592.2
37.5°	460.2	461.3	460.7	463.3	460.7	457.4	451.1	448.0
40°	351.3	348.7	346.7	351.3	345.9	345.9	342.2	346.1
42.5°	275.5	274.4	277.0	278.1	274.9	274.4	273.9	273.6
45°	227.4	227.4	227.9	228.9	227.9	227.4	225.8	224.8
47.5°	187.4	188.4	187.4	190.7	188.9	188.4	185.3	186.6
50°	151.8	150.5	151.8	152.8	153.1	151.5	149.9	150.7
52.5°	117.7	115.6	115.1	116.7	115.6	115.6	114.6	114.3
55°	82.9	83.7	82.4	83.7	83.2	82.4	81.6	82.6
57.5°	56.1	56.4	55.9	56.7	55.4	55.6	55.4	55.1
60°	36.4	35.3	35.3	36.1	34.8	34.8	34.6	34.6
62.5°	20.8	20.5	20.5	20.3	20.0	20.0	20.0	19.5
65°	10.7	10.4	10.1	10.1	10.1	10.1	9.9	9.9
67.5°	5.2	4.9	4.9	5.2	4.9	4.9	4.9	4.9
70°	3.1	3.1	2.9	3.1	2.9	2.9	2.9	2.9
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)