

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: P244141

Luminaire Tested: **LSR8B15D010 EC8B15950 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244141
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 EC8B15950 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1505.0 lumens
Efficiency: N/A
Efficacy: 104.5 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

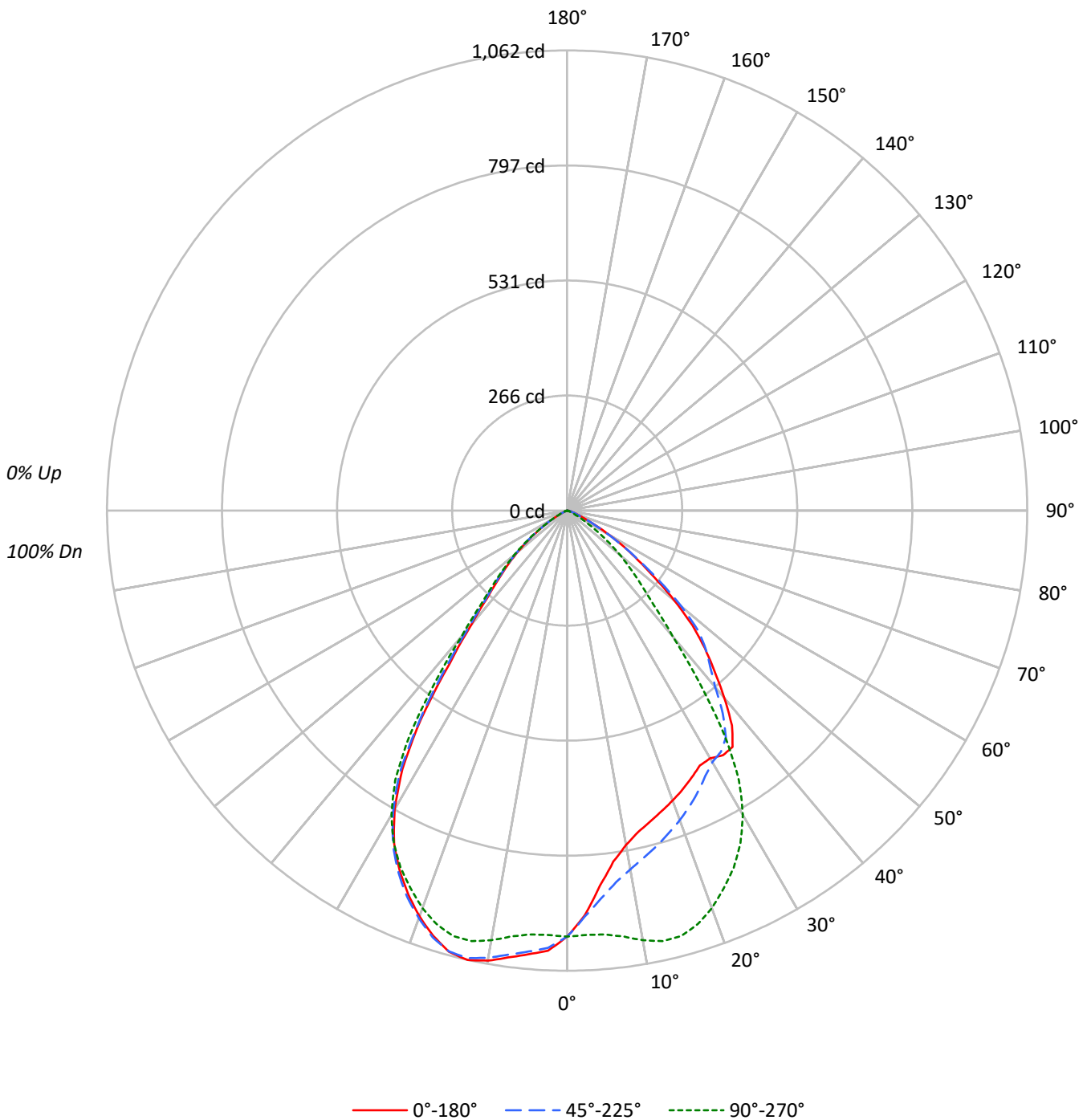
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	30318	30318	30318
5°	26899	30394	31818
10°	24524	31522	33025
15°	23700	32444	33654
20°	23361	32044	32704
25°	23133	30938	31132
30°	23511	28873	28339
35°	25060	23893	22161
40°	22711	15297	13851
45°	19602	10466	9747
50°	15466	7632	7186
55°	10736	4693	4414
60°	6833	2374	2122
65°	3415	941	715
70°	1884	469	252
75°	1358	334	119
80°	1101	231	53
85°	1203	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	6.1
10°-20°	264.7	17.6
20°-30°	384.2	25.5
30°-40°	378.4	25.1
40°-50°	237.2	15.8
50°-60°	114.4	7.6
60°-70°	27.7	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°	740.5	49.2
0°-40°	1118.8	74.3
0°-60°	1470.4	97.7
0°-90°	1505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1505.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	983	983	983	983	983	
5°	869	898	982	1022	1028	80
15°	742	801	1016	1054	1054	210
25°	680	715	909	922	915	315
35°	666	639	635	598	589	403
45°	450	453	240	230	224	344
55°	200	206	87	86	82	184
65°	47	46	13	11	10	53
75°	11	10	3	1	1	13
85°	3	3	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P244141

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2
2.5°	934.6	928.7	917.6	931.0	931.0	923.5	938.5	929.5	936.7	948.1	938.0
5°	869.0	864.1	854.8	869.0	870.8	863.8	881.9	875.2	885.8	899.7	898.5
7.5°	817.1	810.9	802.4	817.1	819.9	815.3	832.6	829.5	843.4	861.5	864.6
10°	783.2	776.8	769.3	782.7	784.8	781.7	799.3	797.5	811.1	832.1	840.3
12.5°	759.2	753.8	745.5	759.7	762.1	757.7	774.2	773.4	787.6	809.6	819.9
15°	742.4	736.0	728.5	740.6	743.7	738.8	754.6	753.0	767.5	789.2	800.8
17.5°	726.7	720.7	713.0	724.3	727.4	722.3	737.8	735.2	747.6	768.3	780.1
20°	711.9	705.5	698.5	710.1	711.9	706.0	721.5	718.1	729.3	748.4	760.0
22.5°	696.7	690.0	682.8	694.1	695.9	690.0	704.2	700.3	710.7	728.0	738.6
25°	679.9	673.7	666.5	677.1	678.6	672.2	687.1	682.2	691.3	706.5	715.3
27.5°	663.1	657.2	649.2	660.0	660.8	654.6	668.3	661.6	669.1	683.0	690.5
30°	660.3	653.6	645.3	654.1	654.3	646.3	659.2	651.2	655.4	665.7	670.1
32.5°	669.3	662.6	654.1	661.3	660.5	651.8	664.2	654.3	655.6	661.1	660.0
35°	665.7	657.7	647.6	655.4	655.4	644.8	657.2	645.6	644.3	645.0	638.6
37.5°	624.6	618.4	608.9	616.4	615.6	607.6	617.1	607.6	603.2	601.4	589.8
40°	564.2	556.7	549.5	557.5	558.2	549.7	562.1	551.3	550.0	544.8	531.1
42.5°	503.0	500.4	493.4	500.1	503.7	496.5	506.8	501.7	502.4	501.2	488.2
45°	449.5	445.1	439.9	447.7	450.0	446.4	456.7	453.6	456.7	463.2	452.6
47.5°	391.9	387.5	381.8	390.1	394.2	387.5	396.3	395.2	399.9	411.0	410.0
50°	322.4	319.3	318.3	319.3	321.9	318.8	325.0	325.2	328.3	343.6	344.6
52.5°	255.2	254.5	250.8	254.2	254.2	249.3	255.5	252.6	255.7	266.1	272.8
55°	199.7	198.9	196.6	199.7	196.3	194.5	196.3	193.5	191.2	199.2	206.1
57.5°	155.5	152.9	150.1	151.4	151.1	147.2	149.3	146.0	144.1	147.0	153.2
60°	110.8	110.0	107.5	108.8	109.8	106.9	109.0	107.5	104.4	106.7	106.9
62.5°	73.6	74.1	72.6	72.8	72.1	71.6	72.8	73.6	72.8	71.8	72.1
65°	46.8	46.5	46.2	46.5	47.0	46.0	46.8	47.3	46.5	46.5	46.2
67.5°	31.0	30.2	29.4	30.0	30.5	29.7	30.5	30.2	30.5	30.2	29.4
70°	20.9	20.7	20.4	20.7	20.7	20.1	20.7	20.4	20.7	20.4	19.6
72.5°	15.2	15.2	15.0	15.2	15.2	14.7	15.0	14.5	14.7	14.5	13.9
75°	11.4	11.4	11.1	11.4	11.1	10.8	11.1	10.8	10.3	10.3	9.8
77.5°	8.3	8.3	8.3	8.3	8.3	8.0	8.0	7.7	7.5	7.2	7.2
80°	6.2	5.9	5.9	5.9	5.9	5.7	5.9	5.7	5.4	5.2	4.9
82.5°	4.4	4.6	4.4	4.4	4.4	4.1	4.4	4.1	4.1	3.9	3.4
85°	3.4	3.4	3.4	3.4	3.4	3.1	3.1	3.1	2.8	2.8	2.6
87.5°	1.8	1.8	1.8	2.1	1.8	1.8	1.8	1.5	1.5	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°	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2
2.5°	951.4	952.7	949.9	954.3	971.3	957.6	963.3	965.1	978.0	980.3	978.8
5°	915.2	920.9	924.5	934.4	953.2	943.4	953.5	959.9	976.5	981.9	983.2
7.5°	886.8	898.7	907.5	923.5	945.7	938.2	953.5	964.1	984.2	991.2	994.6
10°	865.6	883.7	899.0	920.9	946.0	941.1	961.0	976.0	998.4	1006.7	1010.8
12.5°	849.6	871.6	892.0	919.9	947.0	944.7	968.7	985.8	1009.5	1017.8	1022.7
15°	832.1	857.4	881.1	912.4	941.6	941.1	966.9	985.0	1009.3	1016.3	1020.9
17.5°	811.1	838.3	864.4	898.2	927.1	927.6	953.7	971.6	995.3	1001.0	1004.1
20°	790.0	816.8	842.9	877.8	906.2	907.0	932.6	949.1	971.8	976.5	977.2
22.5°	767.5	792.5	818.6	853.2	880.6	881.1	906.5	922.0	941.3	943.7	945.7
25°	741.9	766.5	791.0	825.3	851.4	853.0	876.0	889.7	907.5	909.3	910.1
27.5°	715.3	735.5	759.0	788.4	814.8	813.7	835.4	850.9	866.9	865.9	865.6
30°	688.4	705.2	719.7	748.1	767.5	768.3	788.7	796.2	812.9	810.9	810.6
32.5°	669.6	674.0	677.8	692.3	710.7	704.2	718.1	727.4	739.1	738.3	738.6
35°	635.0	627.0	615.3	617.4	628.5	618.4	625.9	625.7	637.5	634.7	638.1
37.5°	575.8	553.1	527.2	512.5	514.6	501.9	499.3	505.5	509.7	501.7	504.5
40°	512.8	479.2	438.9	405.3	403.5	387.7	384.9	378.7	386.7	380.0	382.1
42.5°	466.3	421.8	368.9	328.1	319.3	306.1	298.4	297.3	299.7	295.0	293.7
45°	430.6	383.4	322.6	275.9	266.1	251.9	244.1	241.3	241.5	240.0	238.7
47.5°	388.8	341.2	279.8	232.0	220.9	207.4	199.7	197.9	198.9	196.8	195.3
50°	330.9	288.3	232.2	188.6	178.8	168.9	162.7	160.9	160.7	159.1	158.1
52.5°	268.7	233.3	184.7	148.3	139.5	129.9	125.5	123.2	123.5	121.9	120.4
55°	208.0	186.0	143.1	112.1	104.1	96.6	92.5	89.6	88.9	87.3	86.5
57.5°	154.7	140.0	107.2	80.9	76.2	69.0	64.8	61.5	61.0	60.2	59.9
60°	108.5	97.9	75.4	57.6	52.2	47.8	43.7	40.3	38.7	38.5	37.7
62.5°	70.3	63.8	49.6	38.5	34.4	31.3	27.1	24.8	23.8	22.7	23.0
65°	43.7	38.7	31.0	24.8	22.5	20.1	17.0	15.0	13.9	12.9	13.2
67.5°	27.1	24.3	19.6	16.0	14.5	12.7	10.3	8.8	8.0	7.2	6.7
70°	18.3	15.8	13.4	11.4	10.3	9.0	7.5	6.2	5.7	5.2	4.6
72.5°	12.9	11.6	9.8	8.5	7.7	6.7	5.7	4.9	4.4	3.9	3.4
75°	9.3	8.3	7.2	6.2	5.7	5.2	4.4	3.9	3.4	2.8	2.3
77.5°	6.7	5.9	5.2	4.6	4.4	3.6	3.1	2.8	2.6	2.1	1.5
80°	4.6	4.1	3.4	3.1	3.1	2.6	2.3	2.1	1.8	1.3	1.0
82.5°	3.1	2.8	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	1.5	1.5	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°	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2
2.5°	992.0	992.7	997.1	993.8	1002.3	1008.5	1005.4	1012.4	1010.1	1009.5	1017.5
5°	998.7	1000.5	1006.4	1003.3	1012.6	1019.4	1016.3	1024.0	1021.7	1021.2	1029.4
7.5°	1011.6	1013.4	1018.6	1016.0	1025.8	1031.8	1027.9	1036.4	1033.3	1033.0	1041.1
10°	1027.9	1030.5	1034.9	1032.3	1041.3	1046.5	1042.6	1050.9	1048.0	1046.7	1055.5
12.5°	1040.0	1041.8	1046.2	1044.2	1052.9	1056.8	1053.5	1061.5	1057.8	1056.8	1064.6
15°	1037.2	1039.0	1042.6	1040.8	1049.1	1052.7	1048.3	1057.1	1053.5	1051.4	1058.4
17.5°	1019.1	1020.1	1022.7	1020.9	1029.7	1032.0	1027.1	1035.9	1032.5	1028.9	1035.6
20°	992.5	992.0	993.5	992.7	1000.0	1001.3	998.2	1004.6	1000.8	998.7	1002.6
22.5°	959.4	958.9	959.9	957.9	965.1	965.9	961.2	969.0	965.1	961.2	967.7
25°	922.7	919.9	919.4	920.2	925.1	925.8	920.9	926.6	921.7	918.6	924.8
27.5°	877.5	873.9	873.1	873.9	878.8	875.2	871.1	875.2	870.3	867.5	871.3
30°	821.7	816.6	814.2	812.7	817.9	816.6	807.0	811.7	803.9	799.8	802.6
32.5°	746.6	743.7	737.5	733.9	738.8	729.0	723.1	723.1	720.0	713.0	714.5
35°	642.2	637.8	632.1	629.0	629.8	616.6	606.8	608.9	598.5	596.7	597.5
37.5°	510.2	503.0	500.9	494.4	496.0	484.4	470.9	471.2	465.8	460.1	458.3
40°	383.4	382.1	380.0	374.6	376.6	364.0	358.8	359.1	355.5	351.3	353.4
42.5°	296.3	292.2	290.9	289.1	289.6	287.5	280.8	281.6	278.5	277.4	276.4
45°	240.8	236.4	233.3	234.8	234.8	232.5	229.9	231.5	229.9	227.8	228.9
47.5°	198.4	194.3	192.7	192.5	194.3	192.7	190.1	190.6	190.4	189.6	189.1
50°	158.4	157.3	156.0	155.3	156.0	155.5	153.2	154.5	155.3	152.7	153.4
52.5°	120.6	120.6	120.4	118.6	120.1	118.6	118.3	118.8	118.1	117.0	116.8
55°	88.3	87.6	86.3	86.0	86.5	86.0	85.5	85.8	86.3	83.7	83.7
57.5°	60.4	59.9	59.2	59.2	60.2	58.9	58.1	59.2	58.1	57.1	57.1
60°	38.7	38.5	37.7	37.7	37.7	37.5	36.7	36.9	37.5	35.9	36.2
62.5°	23.2	22.5	22.2	22.0	22.2	22.0	22.0	21.7	21.4	21.4	20.7
65°	12.7	12.1	11.6	11.9	11.9	11.6	11.6	11.6	11.1	10.8	10.6
67.5°	6.5	5.9	5.9	5.7	5.7	5.7	5.7	5.4	5.4	5.4	5.2
70°	4.1	3.9	3.6	3.6	3.6	3.4	3.4	3.4	3.4	3.4	3.1
72.5°	2.8	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	1.5	1.5	1.5	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°	983.2	983.2	983.2	983.2	983.2	983.2	983.2	983.2
2.5°	1014.7	1012.6	1013.9	1023.5	1019.4	1018.1	1007.2	1016.8
5°	1026.8	1025.3	1025.3	1036.1	1031.2	1030.2	1019.6	1027.9
7.5°	1038.2	1036.7	1036.9	1048.0	1044.2	1042.6	1032.0	1040.3
10°	1052.9	1051.9	1052.2	1062.8	1058.6	1057.1	1046.2	1054.7
12.5°	1061.7	1060.2	1060.2	1071.5	1066.9	1064.6	1054.2	1062.5
15°	1055.0	1052.7	1052.7	1064.0	1058.9	1055.5	1046.5	1054.2
17.5°	1032.0	1029.7	1029.7	1039.5	1035.6	1030.7	1021.4	1028.7
20°	1000.0	997.1	996.4	1007.7	1002.3	997.9	989.6	996.6
22.5°	963.8	962.5	960.2	971.6	966.7	962.0	953.2	958.6
25°	920.4	918.3	916.0	927.1	922.2	917.6	910.6	915.0
27.5°	866.4	866.7	865.4	874.2	869.3	866.7	858.2	865.4
30°	801.1	798.2	797.2	807.5	802.9	799.5	788.9	795.9
32.5°	715.8	711.7	706.3	717.9	709.9	707.0	698.0	708.1
35°	591.8	590.5	585.6	595.4	591.0	585.9	580.2	588.7
37.5°	457.5	458.5	458.0	460.6	458.0	454.7	448.5	445.4
40°	349.3	346.7	344.6	349.3	343.8	343.8	340.2	344.1
42.5°	273.8	272.8	275.4	276.4	273.3	272.8	272.3	272.0
45°	226.0	226.0	226.6	227.6	226.6	226.0	224.5	223.5
47.5°	186.3	187.3	186.3	189.6	187.8	187.3	184.2	185.5
50°	150.9	149.6	150.9	151.9	152.2	150.6	149.1	149.8
52.5°	117.0	115.0	114.4	116.0	115.0	115.0	113.9	113.7
55°	82.4	83.2	81.9	83.2	82.7	81.9	81.1	82.1
57.5°	55.8	56.1	55.5	56.3	55.0	55.3	55.0	54.8
60°	36.2	35.1	35.1	35.9	34.6	34.6	34.4	34.4
62.5°	20.7	20.4	20.4	20.1	19.9	19.9	19.9	19.4
65°	10.6	10.3	10.1	10.1	10.1	10.1	9.8	9.8
67.5°	5.2	4.9	4.9	5.2	4.9	4.9	4.9	4.9
70°	3.1	3.1	2.8	3.1	2.8	2.8	2.8	2.8
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)