

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: P244135

Luminaire Tested: **LSR8B15D010 EC8B15940 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244135
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 EC8B15940 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1454.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

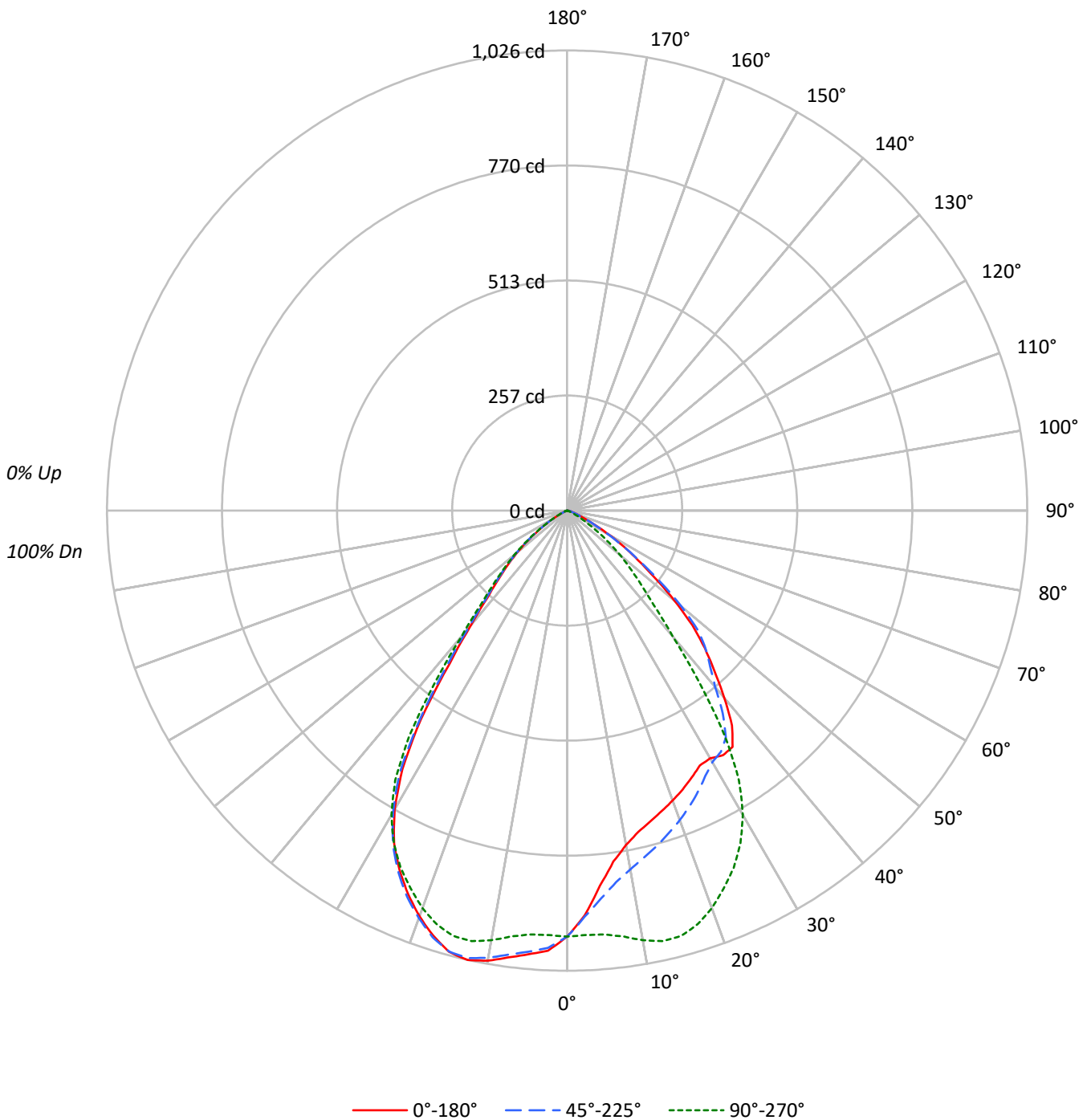
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29291	29291	29291
5°	25989	29363	30737
10°	23694	30454	31907
15°	22899	31343	32515
20°	22570	30958	31595
25°	22350	29890	30077
30°	22714	27894	27378
35°	24209	23083	21412
40°	21942	14777	13380
45°	18939	10113	9415
50°	14944	7373	6946
55°	10371	4537	4269
60°	6605	2294	2048
65°	3298	912	693
70°	1821	451	243
75°	1311	322	119
80°	1065	213	36
85°	1132	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	6.1
10°-20°	255.7	17.6
20°-30°	371.1	25.5
30°-40°	365.5	25.1
40°-50°	229.1	15.8
50°-60°	110.6	7.6
60°-70°	26.8	1.8
70°-80°	5.4	0.4
80°-90°	1.2	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°	715.4	49.2
0°-40°	1080.9	74.3
0°-60°	1420.6	97.7
0°-90°	1454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1454.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	950	950	950	950	950	
5°	840	868	949	987	993	78
15°	717	774	982	1018	1018	203
25°	657	691	878	890	884	304
35°	643	617	613	578	569	389
45°	434	437	232	222	216	332
55°	193	199	84	83	79	177
65°	45	45	12	11	10	52
75°	11	10	3	1	1	12
85°	3	2	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°	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9
2.5°	902.9	897.2	886.5	899.5	899.5	892.2	906.7	898.0	904.9	915.9	906.2
5°	839.6	834.8	825.8	839.6	841.3	834.6	852.0	845.5	855.8	869.3	868.0
7.5°	789.4	783.4	775.2	789.4	792.1	787.6	804.4	801.4	814.9	832.3	835.3
10°	756.7	750.5	743.2	756.2	758.2	755.2	772.2	770.4	783.7	803.9	811.9
12.5°	733.5	728.2	720.3	734.0	736.2	732.0	748.0	747.2	760.9	782.2	792.1
15°	717.3	711.0	703.8	715.5	718.5	713.8	729.0	727.5	741.5	762.4	773.7
17.5°	702.0	696.3	688.8	699.8	702.8	697.8	712.8	710.3	722.3	742.2	753.7
20°	687.8	681.6	674.8	686.1	687.8	682.1	697.1	693.8	704.5	723.0	734.2
22.5°	673.1	666.6	659.6	670.6	672.3	666.6	680.3	676.6	686.6	703.3	713.5
25°	656.9	650.9	643.9	654.1	655.6	649.4	663.9	659.1	667.9	682.6	691.1
27.5°	640.6	634.9	627.2	637.7	638.4	632.4	645.6	639.2	646.4	659.9	667.1
30°	637.9	631.4	623.4	631.9	632.2	624.4	636.9	629.2	633.2	643.1	647.4
32.5°	646.6	640.2	631.9	638.9	638.2	629.7	641.6	632.2	633.4	638.7	637.7
35°	643.1	635.4	625.7	633.2	633.2	622.9	634.9	623.7	622.4	623.2	616.9
37.5°	603.5	597.5	588.2	595.5	594.7	587.0	596.2	587.0	582.7	581.0	569.8
40°	545.1	537.8	530.8	538.6	539.3	531.1	543.1	532.6	531.3	526.3	513.1
42.5°	485.9	483.4	476.7	483.2	486.7	479.7	489.7	484.7	485.4	484.2	471.7
45°	434.3	430.0	425.0	432.5	434.8	431.3	441.2	438.2	441.2	447.5	437.2
47.5°	378.6	374.4	368.9	376.9	380.8	374.4	382.8	381.8	386.3	397.1	396.1
50°	311.5	308.5	307.5	308.5	311.0	308.0	314.0	314.2	317.2	331.9	332.9
52.5°	246.6	245.8	242.3	245.6	245.6	240.8	246.8	244.1	247.1	257.1	263.5
55°	192.9	192.2	189.9	192.9	189.7	187.9	189.7	186.9	184.7	192.4	199.2
57.5°	150.2	147.7	145.0	146.2	146.0	142.3	144.3	141.0	139.3	142.0	148.0
60°	107.1	106.3	103.8	105.1	106.1	103.3	105.3	103.8	100.8	103.1	103.3
62.5°	71.1	71.6	70.1	70.4	69.6	69.1	70.4	71.1	70.4	69.4	69.6
65°	45.2	44.9	44.7	44.9	45.4	44.4	45.2	45.7	44.9	44.9	44.7
67.5°	29.9	29.2	28.5	29.0	29.4	28.7	29.4	29.2	29.4	29.2	28.5
70°	20.2	20.0	19.7	20.0	20.0	19.5	20.0	19.7	20.0	19.7	19.0
72.5°	14.7	14.7	14.5	14.7	14.7	14.2	14.5	14.0	14.2	14.0	13.5
75°	11.0	11.0	10.7	11.0	10.7	10.5	10.7	10.5	10.0	10.0	9.5
77.5°	8.0	8.0	8.0	8.0	8.0	7.7	7.7	7.5	7.2	7.0	7.0
80°	6.0	5.7	5.7	5.7	5.7	5.5	5.7	5.5	5.2	5.0	4.7
82.5°	4.2	4.5	4.2	4.2	4.2	4.0	4.2	4.0	4.0	3.7	3.2
85°	3.2	3.2	3.2	3.2	3.2	3.0	3.0	3.0	2.7	2.7	2.5
87.5°	1.7	1.7	1.7	2.0	1.7	1.7	1.7	1.5	1.5	1.2	1.2
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°	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9
2.5°	919.2	920.4	917.7	921.9	938.4	925.2	930.7	932.4	944.9	947.1	945.6
5°	884.2	889.7	893.2	902.7	920.9	911.4	921.2	927.4	943.4	948.6	949.9
7.5°	856.8	868.3	876.7	892.2	913.7	906.4	921.2	931.4	950.9	957.6	960.8
10°	836.3	853.8	868.5	889.7	913.9	909.2	928.4	942.9	964.6	972.6	976.6
12.5°	820.8	842.1	861.8	888.7	914.9	912.7	935.9	952.4	975.3	983.3	988.1
15°	803.9	828.3	851.3	881.5	909.7	909.2	934.1	951.6	975.1	981.8	986.3
17.5°	783.7	809.9	835.1	867.8	895.7	896.2	921.4	938.6	961.6	967.1	970.1
20°	763.2	789.1	814.4	848.0	875.5	876.2	901.0	916.9	938.9	943.4	944.1
22.5°	741.5	765.7	790.9	824.3	850.8	851.3	875.7	890.7	909.4	911.7	913.7
25°	716.8	740.5	764.2	797.4	822.6	824.1	846.3	859.5	876.7	878.5	879.2
27.5°	691.1	710.5	733.2	761.7	787.1	786.1	807.1	822.1	837.6	836.6	836.3
30°	665.1	681.3	695.3	722.8	741.5	742.2	761.9	769.2	785.4	783.4	783.2
32.5°	646.9	651.1	654.9	668.9	686.6	680.3	693.8	702.8	714.0	713.3	713.5
35°	613.4	605.7	594.5	596.5	607.2	597.5	604.7	604.5	615.9	613.2	616.4
37.5°	556.3	534.3	509.4	495.1	497.1	484.9	482.4	488.4	492.4	484.7	487.4
40°	495.4	463.0	424.0	391.6	389.8	374.6	371.9	365.9	373.6	367.1	369.1
42.5°	450.5	407.6	356.4	317.0	308.5	295.7	288.3	287.3	289.5	285.0	283.8
45°	416.0	370.4	311.7	266.5	257.1	243.3	235.8	233.1	233.3	231.9	230.6
47.5°	375.6	329.7	270.3	224.1	213.4	200.4	192.9	191.2	192.2	190.2	188.7
50°	319.7	278.5	224.4	182.2	172.7	163.2	157.2	155.5	155.2	153.7	152.7
52.5°	259.6	225.4	178.4	143.3	134.8	125.5	121.3	119.0	119.3	117.8	116.3
55°	200.9	179.7	138.3	108.3	100.6	93.3	89.3	86.6	85.9	84.4	83.6
57.5°	149.5	135.3	103.6	78.1	73.6	66.6	62.6	59.4	58.9	58.2	57.9
60°	104.8	94.6	72.9	55.7	50.4	46.2	42.2	38.9	37.4	37.2	36.4
62.5°	67.9	61.6	47.9	37.2	33.2	30.2	26.2	24.0	23.0	22.0	22.2
65°	42.2	37.4	29.9	24.0	21.7	19.5	16.5	14.5	13.5	12.5	12.7
67.5°	26.2	23.5	19.0	15.5	14.0	12.2	10.0	8.5	7.7	7.0	6.5
70°	17.7	15.2	13.0	11.0	10.0	8.7	7.2	6.0	5.5	5.0	4.5
72.5°	12.5	11.2	9.5	8.2	7.5	6.5	5.5	4.7	4.2	3.7	3.2
75°	9.0	8.0	7.0	6.0	5.5	5.0	4.2	3.7	3.2	2.7	2.2
77.5°	6.5	5.7	5.0	4.5	4.2	3.5	3.0	2.7	2.5	2.0	1.5
80°	4.5	4.0	3.2	3.0	3.0	2.5	2.2	2.0	1.7	1.2	1.0
82.5°	3.0	2.7	2.5	2.2	2.0	1.7	1.7	1.2	1.0	0.7	0.5
85°	2.2	2.0	1.7	1.5	1.5	1.2	1.0	0.7	0.7	0.5	0.2
87.5°	1.2	1.2	1.0	0.7	0.7	0.5	0.5	0.2	0.2	0.2	0.2
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°	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9
2.5°	958.4	959.1	963.3	960.1	968.3	974.3	971.3	978.1	975.8	975.3	983.1
5°	964.8	966.6	972.3	969.3	978.3	984.8	981.8	989.3	987.1	986.6	994.5
7.5°	977.3	979.1	984.1	981.6	991.0	996.8	993.0	1001.3	998.3	998.0	1005.8
10°	993.0	995.5	999.8	997.3	1006.0	1011.0	1007.3	1015.3	1012.5	1011.3	1019.7
12.5°	1004.8	1006.5	1010.8	1008.8	1017.3	1021.0	1017.8	1025.5	1022.0	1021.0	1028.5
15°	1002.0	1003.8	1007.3	1005.5	1013.5	1017.0	1012.8	1021.2	1017.8	1015.8	1022.5
17.5°	984.6	985.6	988.1	986.3	994.8	997.0	992.3	1000.8	997.5	994.0	1000.5
20°	958.9	958.4	959.9	959.1	966.1	967.3	964.3	970.6	966.8	964.8	968.6
22.5°	926.9	926.4	927.4	925.4	932.4	933.1	928.7	936.1	932.4	928.7	934.9
25°	891.5	888.7	888.2	889.0	893.7	894.5	889.7	895.2	890.5	887.5	893.5
27.5°	847.8	844.3	843.6	844.3	849.0	845.5	841.6	845.5	840.8	838.1	841.8
30°	793.9	788.9	786.6	785.2	790.1	788.9	779.7	784.2	776.7	772.7	775.4
32.5°	721.3	718.5	712.5	709.0	713.8	704.3	698.6	698.6	695.6	688.8	690.3
35°	620.4	616.2	610.7	607.7	608.5	595.7	586.2	588.2	578.3	576.5	577.3
37.5°	492.9	485.9	483.9	477.7	479.2	467.9	455.0	455.2	450.0	444.5	442.7
40°	370.4	369.1	367.1	361.9	363.9	351.6	346.7	346.9	343.4	339.4	341.4
42.5°	286.3	282.3	281.0	279.3	279.8	277.8	271.3	272.0	269.0	268.0	267.0
45°	232.6	228.4	225.4	226.9	226.9	224.6	222.1	223.6	222.1	220.1	221.1
47.5°	191.7	187.7	186.2	185.9	187.7	186.2	183.7	184.2	183.9	183.2	182.7
50°	153.0	152.0	150.7	150.0	150.7	150.2	148.0	149.2	150.0	147.5	148.2
52.5°	116.5	116.5	116.3	114.6	116.1	114.6	114.3	114.8	114.1	113.1	112.8
55°	85.4	84.6	83.4	83.1	83.6	83.1	82.6	82.9	83.4	80.9	80.9
57.5°	58.4	57.9	57.2	57.2	58.2	56.9	56.2	57.2	56.2	55.2	55.2
60°	37.4	37.2	36.4	36.4	36.4	36.2	35.4	35.7	36.2	34.7	34.9
62.5°	22.5	21.7	21.5	21.2	21.5	21.2	21.2	21.0	20.7	20.7	20.0
65°	12.2	11.7	11.2	11.5	11.5	11.2	11.2	11.2	10.7	10.5	10.2
67.5°	6.2	5.7	5.7	5.5	5.5	5.5	5.5	5.2	5.2	5.2	5.0
70°	4.0	3.7	3.5	3.5	3.5	3.2	3.2	3.2	3.2	3.2	3.0
72.5°	2.7	2.5	2.2	2.2	2.2	2.0	2.0	2.0	2.0	1.7	1.7
75°	2.0	1.7	1.5	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.5
80°	0.7	0.7	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
82.5°	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.2	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°	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9
2.5°	980.3	978.3	979.6	988.8	984.8	983.6	973.1	982.3
5°	992.0	990.5	990.5	1001.0	996.3	995.3	985.1	993.0
7.5°	1003.0	1001.5	1001.8	1012.5	1008.8	1007.3	997.0	1005.0
10°	1017.3	1016.3	1016.5	1026.7	1022.7	1021.2	1010.8	1019.0
12.5°	1025.7	1024.2	1024.2	1035.2	1030.7	1028.5	1018.5	1026.5
15°	1019.2	1017.0	1017.0	1028.0	1023.0	1019.7	1011.0	1018.5
17.5°	997.0	994.8	994.8	1004.3	1000.5	995.8	986.8	993.8
20°	966.1	963.3	962.6	973.6	968.3	964.1	956.1	962.8
22.5°	931.2	929.9	927.7	938.6	933.9	929.4	920.9	926.2
25°	889.2	887.2	885.0	895.7	891.0	886.5	879.7	884.0
27.5°	837.1	837.3	836.1	844.5	839.8	837.3	829.1	836.1
30°	773.9	771.2	770.2	780.2	775.7	772.4	762.2	768.9
32.5°	691.6	687.6	682.3	693.6	685.8	683.1	674.3	684.1
35°	571.8	570.5	565.8	575.3	571.0	566.0	560.5	568.8
37.5°	442.0	443.0	442.5	445.0	442.5	439.2	433.3	430.3
40°	337.4	334.9	332.9	337.4	332.2	332.2	328.7	332.4
42.5°	264.5	263.5	266.0	267.0	264.0	263.5	263.0	262.8
45°	218.4	218.4	218.9	219.9	218.9	218.4	216.9	215.9
47.5°	179.9	180.9	179.9	183.2	181.4	180.9	177.9	179.2
50°	145.7	144.5	145.7	146.7	147.0	145.5	144.0	144.8
52.5°	113.1	111.1	110.6	112.1	111.1	111.1	110.1	109.8
55°	79.6	80.4	79.1	80.4	79.9	79.1	78.4	79.4
57.5°	53.9	54.2	53.7	54.4	53.2	53.4	53.2	52.9
60°	34.9	33.9	33.9	34.7	33.4	33.4	33.2	33.2
62.5°	20.0	19.7	19.7	19.5	19.2	19.2	19.2	18.7
65°	10.2	10.0	9.7	9.7	9.7	9.7	9.5	9.5
67.5°	5.0	4.7	4.7	5.0	4.7	4.7	4.7	4.7
70°	3.0	3.0	2.7	3.0	2.7	2.7	2.7	2.7
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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)