

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: P245431

Luminaire Tested: **LSR8B15D010 EC8B15940 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245431
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 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1402.0 lumens
Efficiency: N/A
Efficacy: 97.4 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

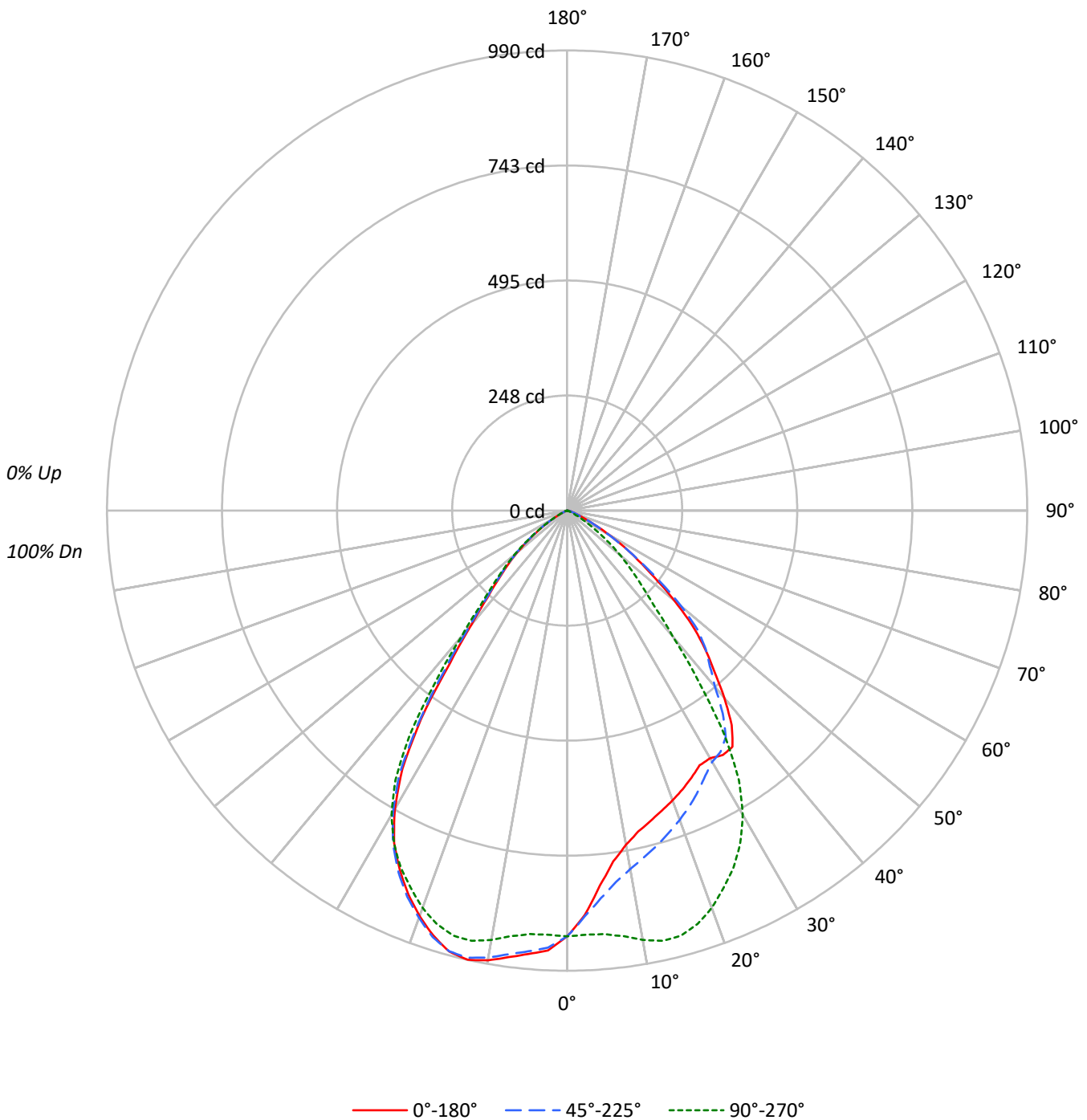
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	28243	28243	28243
5°	25057	28314	29639
10°	22845	29364	30767
15°	22079	30223	31353
20°	21763	29849	30466
25°	21551	28822	29002
30°	21902	26897	26399
35°	23343	22259	20644
40°	21157	14250	12901
45°	18259	9751	9079
50°	14406	7110	6697
55°	10000	4371	4113
60°	6365	2214	1974
65°	3181	876	664
70°	1758	433	234
75°	1263	310	119
80°	1030	213	36
85°	1097	177	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	6.1
10°-20°	246.6	17.6
20°-30°	357.9	25.5
30°-40°	352.5	25.1
40°-50°	220.9	15.8
50°-60°	106.6	7.6
60°-70°	25.8	1.8
70°-80°	5.2	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°	689.8	49.2
0°-40°	1042.2	74.3
0°-60°	1369.8	97.7
0°-90°	1402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1402.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	916	916	916	916	916	
5°	810	837	915	952	958	75
15°	692	746	947	981	982	196
25°	633	666	847	859	852	293
35°	620	595	591	558	548	375
45°	419	422	224	214	208	320
55°	186	192	81	80	76	171
65°	44	43	12	10	9	50
75°	11	9	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°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	870.7	865.1	854.8	867.3	867.3	860.3	874.3	865.8	872.6	883.2	873.8
5°	809.5	805.0	796.3	809.5	811.2	804.7	821.6	815.3	825.2	838.2	837.0
7.5°	761.2	755.4	747.4	761.2	763.8	759.5	775.6	772.7	785.7	802.6	805.4
10°	729.6	723.6	716.6	729.2	731.1	728.2	744.6	742.9	755.6	775.1	782.8
12.5°	707.3	702.2	694.5	707.7	709.9	705.8	721.2	720.5	733.7	754.2	763.8
15°	691.6	685.6	678.6	689.9	692.8	688.2	702.9	701.5	715.0	735.2	746.0
17.5°	676.9	671.4	664.2	674.8	677.7	672.8	687.3	684.9	696.4	715.7	726.8
20°	663.2	657.2	650.7	661.5	663.2	657.7	672.1	669.0	679.3	697.2	708.0
22.5°	649.0	642.8	636.0	646.6	648.3	642.8	656.0	652.4	662.0	678.1	688.0
25°	633.4	627.6	620.9	630.7	632.2	626.2	640.1	635.5	644.0	658.2	666.3
27.5°	617.7	612.2	604.7	614.9	615.6	609.8	622.6	616.3	623.3	636.3	643.2
30°	615.1	608.8	601.1	609.3	609.6	602.1	614.1	606.7	610.5	620.1	624.2
32.5°	623.5	617.3	609.3	616.1	615.3	607.1	618.7	609.6	610.8	615.8	614.9
35°	620.1	612.7	603.3	610.5	610.5	600.7	612.2	601.4	600.2	600.9	594.9
37.5°	581.9	576.1	567.2	574.2	573.5	566.0	574.9	566.0	561.9	560.2	549.4
40°	525.6	518.6	511.9	519.3	520.0	512.1	523.6	513.5	512.3	507.5	494.8
42.5°	468.5	466.1	459.6	465.9	469.3	462.5	472.1	467.3	468.1	466.9	454.8
45°	418.7	414.6	409.8	417.0	419.2	415.8	425.5	422.6	425.5	431.5	421.6
47.5°	365.1	361.0	355.7	363.4	367.2	361.0	369.2	368.2	372.5	382.9	381.9
50°	300.3	297.4	296.5	297.4	299.8	297.0	302.7	303.0	305.9	320.1	321.0
52.5°	237.8	237.0	233.7	236.8	236.8	232.2	238.0	235.4	238.2	247.9	254.1
55°	186.0	185.3	183.1	186.0	182.9	181.2	182.9	180.2	178.1	185.5	192.0
57.5°	144.9	142.5	139.8	141.0	140.8	137.2	139.1	136.0	134.3	136.9	142.7
60°	103.2	102.5	100.1	101.3	102.3	99.6	101.6	100.1	97.2	99.4	99.6
62.5°	68.6	69.1	67.6	67.9	67.1	66.7	67.9	68.6	67.9	66.9	67.1
65°	43.6	43.3	43.1	43.3	43.8	42.8	43.6	44.0	43.3	43.3	43.1
67.5°	28.9	28.2	27.4	27.9	28.4	27.7	28.4	28.2	28.4	28.2	27.4
70°	19.5	19.3	19.0	19.3	19.3	18.8	19.3	19.0	19.3	19.0	18.3
72.5°	14.2	14.2	14.0	14.2	14.2	13.7	14.0	13.5	13.7	13.5	13.0
75°	10.6	10.6	10.3	10.6	10.3	10.1	10.3	10.1	9.6	9.6	9.1
77.5°	7.7	7.7	7.7	7.7	7.7	7.5	7.5	7.2	7.0	6.7	6.7
80°	5.8	5.5	5.5	5.5	5.5	5.3	5.5	5.3	5.1	4.8	4.6
82.5°	4.1	4.3	4.1	4.1	4.1	3.9	4.1	3.9	3.9	3.6	3.1
85°	3.1	3.1	3.1	3.1	3.1	2.9	2.9	2.9	2.6	2.6	2.4
87.5°	1.7	1.7	1.7	1.9	1.7	1.7	1.7	1.4	1.4	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°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	886.3	887.5	884.9	888.9	904.8	892.1	897.4	899.1	911.1	913.3	911.8
5°	852.6	857.9	861.3	870.4	888.0	878.8	888.2	894.2	909.6	914.7	915.9
7.5°	826.1	837.2	845.4	860.3	881.0	874.0	888.2	898.1	916.9	923.4	926.5
10°	806.4	823.2	837.4	857.9	881.2	876.7	895.2	909.2	930.1	937.8	941.6
12.5°	791.5	811.9	831.0	856.9	882.2	880.0	902.4	918.3	940.4	948.1	952.7
15°	775.1	798.7	820.8	850.0	877.2	876.7	900.7	917.6	940.2	946.7	951.0
17.5°	755.6	780.9	805.2	836.7	863.7	864.2	888.5	905.1	927.2	932.5	935.4
20°	735.9	760.9	785.2	817.7	844.2	844.9	868.7	884.1	905.3	909.6	910.4
22.5°	715.0	738.3	762.6	794.9	820.4	820.8	844.4	858.9	876.9	879.1	881.0
25°	691.1	714.0	736.9	768.9	793.2	794.6	816.0	828.8	845.4	847.1	847.8
27.5°	666.3	685.1	707.0	734.5	759.0	758.0	778.2	792.7	807.6	806.6	806.4
30°	641.3	657.0	670.4	696.9	715.0	715.7	734.7	741.7	757.3	755.4	755.1
32.5°	623.8	627.8	631.5	644.9	662.0	656.0	669.0	677.7	688.5	687.8	688.0
35°	591.5	584.0	573.2	575.1	585.5	576.1	583.1	582.8	593.9	591.3	594.4
37.5°	536.4	515.2	491.2	477.4	479.4	467.6	465.2	470.9	474.8	467.3	470.0
40°	477.7	446.4	408.9	377.6	375.9	361.2	358.6	352.8	360.2	354.0	355.9
42.5°	434.4	393.0	343.6	305.6	297.4	285.2	277.9	277.0	279.1	274.8	273.6
45°	401.2	357.1	300.6	257.0	247.9	234.6	227.4	224.8	225.0	223.6	222.4
47.5°	362.2	317.9	260.6	216.1	205.8	193.2	186.0	184.3	185.3	183.4	181.9
50°	308.3	268.6	216.3	175.7	166.5	157.4	151.6	149.9	149.7	148.2	147.3
52.5°	250.3	217.3	172.1	138.1	129.9	121.0	117.0	114.8	115.0	113.6	112.1
55°	193.7	173.3	133.3	104.4	97.0	90.0	86.2	83.5	82.8	81.3	80.6
57.5°	144.1	130.4	99.9	75.3	71.0	64.3	60.4	57.3	56.8	56.1	55.8
60°	101.1	91.2	70.3	53.7	48.6	44.5	40.7	37.5	36.1	35.9	35.1
62.5°	65.5	59.4	46.2	35.9	32.0	29.1	25.3	23.1	22.1	21.2	21.4
65°	40.7	36.1	28.9	23.1	20.9	18.8	15.9	14.0	13.0	12.0	12.3
67.5°	25.3	22.6	18.3	14.9	13.5	11.8	9.6	8.2	7.5	6.7	6.3
70°	17.1	14.7	12.5	10.6	9.6	8.4	7.0	5.8	5.3	4.8	4.3
72.5°	12.0	10.8	9.1	7.9	7.2	6.3	5.3	4.6	4.1	3.6	3.1
75°	8.7	7.7	6.7	5.8	5.3	4.8	4.1	3.6	3.1	2.6	2.2
77.5°	6.3	5.5	4.8	4.3	4.1	3.4	2.9	2.6	2.4	1.9	1.4
80°	4.3	3.9	3.1	2.9	2.9	2.4	2.2	1.9	1.7	1.2	1.0
82.5°	2.9	2.6	2.4	2.2	1.9	1.7	1.7	1.2	1.0	0.7	0.5
85°	2.2	1.9	1.7	1.4	1.4	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°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	924.1	924.8	928.9	925.8	933.7	939.5	936.6	943.1	940.9	940.4	947.9
5°	930.3	932.0	937.6	934.7	943.3	949.6	946.7	953.9	951.8	951.3	959.0
7.5°	942.4	944.1	948.9	946.5	955.6	961.1	957.5	965.5	962.6	962.3	969.8
10°	957.5	959.9	964.0	961.6	970.0	974.9	971.2	978.9	976.3	975.1	983.3
12.5°	968.8	970.5	974.6	972.7	980.9	984.5	981.4	988.8	985.4	984.5	991.7
15°	966.2	967.9	971.2	969.6	977.3	980.6	976.5	984.7	981.4	979.4	985.9
17.5°	949.3	950.3	952.7	951.0	959.2	961.4	956.8	965.0	961.9	958.5	964.7
20°	924.6	924.1	925.5	924.8	931.5	932.7	929.9	935.9	932.3	930.3	933.9
22.5°	893.8	893.3	894.2	892.3	899.1	899.8	895.4	902.7	899.1	895.4	901.5
25°	859.6	856.9	856.5	857.2	861.8	862.5	857.9	863.2	858.6	855.7	861.5
27.5°	817.5	814.1	813.4	814.1	818.7	815.3	811.5	815.3	810.7	808.1	811.7
30°	765.5	760.7	758.5	757.1	761.9	760.7	751.8	756.1	748.9	745.0	747.7
32.5°	695.5	692.8	687.0	683.7	688.2	679.1	673.6	673.6	670.7	664.2	665.6
35°	598.2	594.2	588.9	586.0	586.7	574.4	565.3	567.2	557.6	555.9	556.6
37.5°	475.3	468.5	466.6	460.6	462.0	451.2	438.7	438.9	433.9	428.6	426.9
40°	357.1	355.9	354.0	348.9	350.9	339.1	334.3	334.5	331.1	327.3	329.2
42.5°	276.0	272.2	271.0	269.3	269.8	267.8	261.6	262.3	259.4	258.5	257.5
45°	224.3	220.2	217.3	218.7	218.7	216.6	214.2	215.6	214.2	212.2	213.2
47.5°	184.8	181.0	179.5	179.3	181.0	179.5	177.1	177.6	177.4	176.6	176.2
50°	147.5	146.6	145.4	144.6	145.4	144.9	142.7	143.9	144.6	142.2	142.9
52.5°	112.4	112.4	112.1	110.5	111.9	110.5	110.2	110.7	110.0	109.0	108.8
55°	82.3	81.6	80.4	80.1	80.6	80.1	79.7	79.9	80.4	78.0	78.0
57.5°	56.3	55.8	55.1	55.1	56.1	54.9	54.1	55.1	54.1	53.2	53.2
60°	36.1	35.9	35.1	35.1	35.1	34.9	34.2	34.4	34.9	33.4	33.7
62.5°	21.7	20.9	20.7	20.5	20.7	20.5	20.5	20.2	20.0	20.0	19.3
65°	11.8	11.3	10.8	11.1	11.1	10.8	10.8	10.8	10.3	10.1	9.9
67.5°	6.0	5.5	5.5	5.3	5.3	5.3	5.3	5.1	5.1	5.1	4.8
70°	3.9	3.6	3.4	3.4	3.4	3.1	3.1	3.1	3.1	3.1	2.9
72.5°	2.6	2.4	2.2	2.2	2.2	1.9	1.9	1.9	1.9	1.7	1.7
75°	1.9	1.7	1.4	1.4	1.4	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°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	945.3	943.3	944.5	953.4	949.6	948.4	938.3	947.2
5°	956.6	955.1	955.1	965.2	960.7	959.7	949.8	957.5
7.5°	967.2	965.7	966.0	976.3	972.7	971.2	961.4	969.1
10°	980.9	979.9	980.2	990.0	986.2	984.7	974.6	982.6
12.5°	989.1	987.6	987.6	998.2	993.9	991.7	982.1	989.8
15°	982.8	980.6	980.6	991.2	986.4	983.3	974.9	982.1
17.5°	961.4	959.2	959.2	968.4	964.7	960.2	951.5	958.3
20°	931.5	928.9	928.2	938.8	933.7	929.6	921.9	928.4
22.5°	897.8	896.6	894.5	905.1	900.5	896.2	888.0	893.0
25°	857.4	855.5	853.3	863.7	859.1	854.8	848.3	852.4
27.5°	807.1	807.4	806.2	814.3	809.8	807.4	799.4	806.2
30°	746.2	743.6	742.6	752.3	747.9	744.8	734.9	741.4
32.5°	666.8	663.0	657.9	668.8	661.3	658.6	650.2	659.6
35°	551.3	550.1	545.5	554.7	550.6	545.8	540.5	548.4
37.5°	426.2	427.1	426.7	429.1	426.7	423.5	417.8	414.9
40°	325.4	322.9	321.0	325.4	320.3	320.3	316.9	320.5
42.5°	255.1	254.1	256.5	257.5	254.6	254.1	253.6	253.4
45°	210.6	210.6	211.0	212.0	211.0	210.6	209.1	208.2
47.5°	173.5	174.5	173.5	176.6	174.9	174.5	171.6	172.8
50°	140.5	139.3	140.5	141.5	141.7	140.3	138.9	139.6
52.5°	109.0	107.1	106.6	108.0	107.1	107.1	106.1	105.9
55°	76.8	77.5	76.3	77.5	77.0	76.3	75.6	76.5
57.5°	52.0	52.2	51.7	52.5	51.3	51.5	51.3	51.0
60°	33.7	32.7	32.7	33.4	32.2	32.2	32.0	32.0
62.5°	19.3	19.0	19.0	18.8	18.5	18.5	18.5	18.0
65°	9.9	9.6	9.4	9.4	9.4	9.4	9.1	9.1
67.5°	4.8	4.6	4.6	4.8	4.6	4.6	4.6	4.6
70°	2.9	2.9	2.6	2.9	2.6	2.6	2.6	2.6
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

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