

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: P245522

Luminaire Tested: **LSR8B20D010 EC8B20930 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20930 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1850.8 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

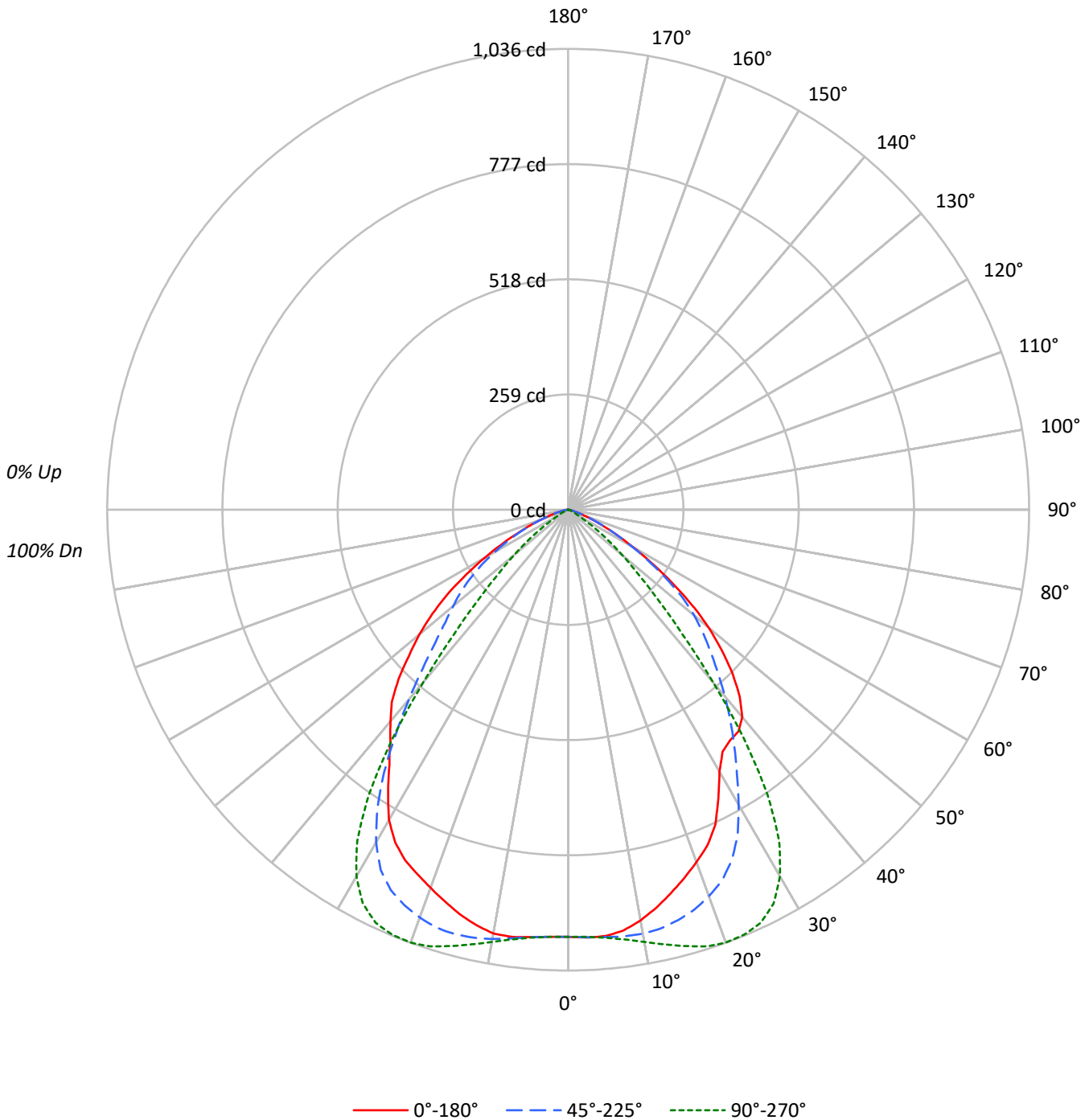
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	5.0
10°-20°	273.5	14.8
20°-30°	417.3	22.5
30°-40°	435.4	23.5
40°-50°	327.1	17.7
50°-60°	201.2	10.9
60°-70°	81.9	4.4
70°-80°	19.3	1.0
80°-90°	2.7	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°	783.1	42.3
0°-40°	1218.6	65.8
0°-60°	1746.9	94.4
0°-90°	1850.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1850.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	960	960	960	960	960	
5°	962	965	966	965	965	91
15°	892	955	1016	988	941	251
25°	782	869	1024	943	868	355
35°	634	651	780	721	701	400
45°	523	452	282	422	539	399
55°	282	268	74	268	331	254
65°	88	89	11	120	127	92
75°	15	15	2	27	28	18
85°	2	2	1	4	5	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	960.1	960.1	960.1	960.1	960.1	960.1	960.1	960.1	960.1	960.1	960.1
2.5°	962.7	961.1	962.7	962.7	963.2	962.2	962.7	963.2	962.2	962.2	962.2
5°	962.2	961.1	962.2	961.6	962.7	962.7	963.7	963.7	964.7	964.7	966.2
7.5°	954.0	952.0	954.0	955.5	956.5	958.6	961.1	963.2	965.2	967.3	969.8
10°	937.2	937.2	938.7	941.8	944.8	948.4	953.0	958.1	963.2	967.8	972.4
12.5°	916.3	914.7	917.8	921.9	926.5	932.1	939.2	946.9	955.0	964.2	971.3
15°	892.3	890.9	894.3	898.5	904.1	912.3	920.9	931.1	942.8	955.0	966.8
17.5°	867.9	867.3	870.9	876.5	881.1	889.7	901.1	913.3	926.5	942.8	958.1
20°	842.9	842.4	846.0	850.5	856.7	864.9	876.1	890.3	906.1	924.5	942.3
22.5°	816.9	817.4	820.5	825.6	830.7	839.3	851.1	865.3	882.7	902.5	922.4
25°	781.8	779.2	783.2	788.4	797.0	804.2	815.4	830.7	848.5	869.4	892.9
27.5°	730.8	730.3	733.8	738.4	746.0	754.8	767.0	782.8	801.6	824.6	847.5
30°	679.8	680.9	682.4	686.9	692.1	700.7	713.0	726.2	744.0	766.0	790.4
32.5°	645.1	645.1	647.3	650.3	653.9	658.5	667.1	676.7	690.5	705.8	723.6
35°	633.5	631.5	633.5	633.9	634.5	635.5	637.1	640.1	644.7	651.3	657.9
37.5°	628.3	626.9	626.9	624.8	622.3	619.2	615.1	610.5	605.5	598.8	593.7
40°	608.5	607.5	606.5	604.4	598.8	592.7	586.1	575.4	563.6	547.3	531.0
42.5°	570.3	569.2	568.7	564.6	559.6	552.4	544.8	533.6	518.8	497.9	474.4
45°	522.8	520.8	519.4	515.8	512.2	506.0	499.0	488.8	474.0	452.5	424.5
47.5°	467.8	466.8	466.3	464.8	461.2	457.6	453.1	444.9	431.7	411.3	382.3
50°	412.3	410.3	411.3	410.7	409.3	406.7	403.6	398.1	387.9	369.5	343.0
52.5°	348.5	348.5	348.1	349.6	350.1	349.6	350.1	344.0	335.3	321.6	299.2
55°	282.3	282.3	283.8	285.9	288.0	288.4	288.0	285.4	279.2	268.0	248.2
57.5°	220.2	219.2	222.2	225.2	227.3	229.4	227.8	225.8	222.2	213.0	197.7
60°	167.7	167.7	169.7	171.7	173.8	175.8	175.3	174.8	171.7	165.6	153.4
62.5°	123.3	123.9	123.9	125.3	127.3	129.5	130.9	129.5	127.9	123.9	115.7
65°	88.1	87.7	88.1	89.7	91.2	93.3	94.3	93.7	92.3	89.2	83.1
67.5°	59.1	58.6	60.6	61.2	62.2	64.2	63.7	64.2	63.7	61.2	56.0
70°	38.7	37.7	38.7	38.2	39.8	40.2	41.3	41.8	41.3	39.8	38.2
72.5°	24.0	23.4	24.0	24.4	25.0	25.4	26.5	26.5	26.0	25.0	23.0
75°	15.2	13.8	14.2	13.2	14.2	14.2	15.2	15.8	15.2	15.2	14.2
77.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.6	10.2	9.2	8.6
80°	4.6	4.6	5.0	5.0	5.0	5.6	5.0	5.0	5.0	5.6	4.0
82.5°	3.6	3.0	3.0	3.0	3.6	3.0	3.0	3.0	3.0	3.0	3.0
85°	1.6	2.0	1.6	1.0	1.6	1.6	2.0	1.6	1.6	1.6	2.0
87.5°	0.6	0.6	0.0	0.0	0.0	0.6	0.0	0.6	0.6	1.0	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	960.1	960.1	960.1	960.1	960.1	960.1	960.1	960.1	960.1	960.1	960.1
2.5°	962.7	961.6	961.6	961.1	962.2	961.1	961.6	961.1	961.1	962.2	961.1
5°	966.2	966.8	965.7	965.2	966.8	966.8	966.8	965.7	965.7	966.2	965.7
7.5°	971.3	972.4	972.8	973.4	974.4	974.9	974.9	974.4	973.9	975.4	973.4
10°	977.0	978.5	981.5	983.0	985.6	985.6	986.6	986.6	985.6	986.6	986.1
12.5°	974.9	984.0	989.2	992.8	996.3	999.4	1000.4	1000.9	1000.4	1002.4	1000.4
15°	978.5	986.1	994.2	1000.4	1007.0	1010.6	1011.6	1015.6	1016.6	1017.2	1014.2
17.5°	972.8	986.6	995.2	1004.4	1014.2	1020.8	1026.8	1029.4	1030.0	1031.0	1026.8
20°	960.1	975.4	988.6	1001.9	1013.2	1023.4	1028.4	1035.6	1033.6	1037.6	1032.0
22.5°	942.8	960.1	977.0	994.2	1006.0	1018.2	1029.0	1034.0	1036.6	1036.6	1030.4
25°	915.3	935.7	954.0	971.8	989.7	1004.4	1016.6	1024.4	1025.8	1025.4	1018.2
27.5°	872.5	894.3	915.7	936.1	958.1	975.4	989.7	998.8	1001.4	1001.4	993.8
30°	813.4	836.8	857.7	882.1	904.5	923.9	943.8	952.0	956.5	956.5	947.9
32.5°	743.0	763.0	782.2	806.2	830.7	852.6	871.5	882.7	888.3	887.7	880.1
35°	666.5	676.3	691.1	708.9	730.8	751.2	769.6	780.2	789.9	789.4	782.2
37.5°	590.1	587.6	589.1	595.7	609.5	623.7	638.1	648.3	656.3	659.9	658.5
40°	515.2	502.0	489.2	484.6	485.6	490.8	498.4	506.0	515.2	519.8	521.8
42.5°	448.0	425.5	403.1	386.3	376.7	373.5	377.1	379.7	385.3	391.9	398.5
45°	393.9	363.9	334.3	308.3	292.0	282.3	280.2	282.3	285.4	292.0	300.7
47.5°	349.6	314.4	281.3	252.2	228.3	215.6	212.0	211.0	214.0	220.2	231.8
50°	310.4	275.2	238.5	204.8	179.9	165.6	160.5	158.5	162.1	166.7	177.3
52.5°	267.6	232.9	195.2	162.5	136.5	121.9	116.1	113.1	115.1	121.3	131.9
55°	221.2	189.1	154.9	121.3	96.3	82.5	75.9	73.9	75.9	82.5	93.3
57.5°	174.8	147.7	119.3	87.7	65.2	51.5	44.8	42.8	48.4	51.0	62.2
60°	136.5	114.7	90.2	64.2	44.8	34.2	27.5	26.0	28.6	33.1	42.3
62.5°	102.5	88.7	69.3	45.8	33.1	21.9	18.4	16.8	18.4	21.9	29.0
65°	74.4	63.7	48.4	33.6	22.4	16.3	12.2	11.2	12.8	15.2	21.4
67.5°	51.0	42.8	33.6	23.4	15.2	10.2	8.6	8.6	9.2	11.2	15.8
70°	33.1	28.0	21.4	15.2	10.2	7.6	6.6	5.6	6.6	8.2	10.6
72.5°	20.9	17.8	13.8	10.6	7.6	5.6	4.6	4.0	5.0	6.2	8.2
75°	12.8	9.6	7.2	5.6	4.0	4.0	4.0	2.0	2.6	4.0	5.0
77.5°	7.6	6.6	5.6	4.6	3.6	2.0	2.0	2.0	2.6	3.0	4.6
80°	4.0	3.6	2.6	2.6	2.0	1.6	2.0	1.6	1.0	2.6	3.0
82.5°	2.6	2.0	2.0	2.0	2.6	1.0	1.6	1.0	1.6	2.0	1.6
85°	1.6	1.6	1.6	1.0	2.6	1.0	1.0	0.6	0.6	1.0	1.0
87.5°	0.0	0.6	0.6	0.0	0.6	0.0	0.6	0.6	0.6	0.6	0.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	960.1	960.1	960.1	960.1	960.1	960.1	960.1	960.1	960.1	960.1	960.1
2.5°	961.6	961.1	961.6	961.1	961.1	961.1	961.6	961.6	961.1	961.1	962.2
5°	965.7	965.7	965.7	965.2	964.7	964.7	965.7	965.7	964.2	965.7	965.7
7.5°	974.4	972.8	974.4	972.4	971.3	971.8	972.4	971.3	970.3	970.8	970.8
10°	985.6	984.0	984.0	982.6	981.0	980.0	979.0	976.4	973.9	973.4	971.3
12.5°	998.8	996.3	994.8	991.7	989.2	985.6	982.6	978.5	973.4	969.8	966.2
15°	1012.2	1008.0	1004.4	999.4	993.8	987.6	981.0	974.4	966.2	959.1	953.0
17.5°	1022.8	1017.2	1010.6	1002.4	994.2	985.1	975.4	965.7	954.0	944.8	937.7
20°	1026.4	1018.2	1009.6	998.8	988.2	975.4	963.2	950.4	937.2	927.5	919.3
22.5°	1021.8	1012.2	1001.4	990.2	975.9	962.2	947.9	933.1	921.3	908.1	900.5
25°	1009.0	997.4	985.6	972.4	958.6	943.3	928.0	912.7	898.5	891.3	881.7
27.5°	983.0	970.3	957.6	943.8	928.0	912.7	896.9	882.1	869.9	860.3	854.7
30°	937.2	922.4	907.7	892.9	879.1	863.3	848.5	836.3	824.0	816.4	810.8
32.5°	866.9	853.6	838.8	824.6	811.8	798.6	786.4	775.6	767.0	761.8	757.8
35°	772.0	758.8	747.6	737.4	726.7	721.1	713.5	707.4	703.8	701.7	701.2
37.5°	652.9	645.1	641.7	639.5	637.5	636.1	637.1	639.5	641.7	645.1	649.3
40°	525.4	532.0	534.0	541.2	547.8	556.5	566.2	577.4	586.6	598.3	606.5
42.5°	409.3	421.5	435.7	451.0	467.3	483.2	502.4	520.4	536.6	551.4	564.2
45°	314.4	333.3	354.7	376.7	398.5	421.5	444.9	466.8	486.2	502.0	515.2
47.5°	245.2	266.0	293.6	320.6	347.1	374.1	400.1	423.0	439.3	454.6	466.3
50°	194.2	218.1	248.2	279.2	308.3	336.9	364.3	385.7	402.1	414.3	423.0
52.5°	150.3	178.9	209.4	242.0	273.2	304.2	329.7	349.6	362.9	373.5	380.1
55°	112.1	140.1	172.7	206.4	238.0	268.0	292.0	309.4	321.1	327.2	330.7
57.5°	81.0	106.5	139.1	172.7	201.3	229.8	249.2	265.0	271.6	275.2	276.8
60°	59.1	82.5	111.7	140.7	167.7	190.6	207.4	218.1	223.2	225.2	224.8
62.5°	43.3	63.7	88.7	113.1	135.1	153.9	167.1	174.3	176.9	177.9	176.3
65°	33.1	48.9	70.3	89.2	106.0	119.7	129.5	134.1	135.5	135.1	134.1
67.5°	24.4	36.7	52.5	66.8	79.0	89.7	94.8	98.9	99.9	98.3	96.9
70°	17.4	27.0	38.2	47.9	57.1	63.2	68.8	69.3	69.3	68.8	67.8
72.5°	12.2	18.8	26.0	32.6	38.2	42.8	44.8	46.4	45.8	45.4	44.4
75°	8.2	11.8	18.8	20.4	25.4	27.0	29.0	29.0	29.6	28.0	28.0
77.5°	5.0	8.2	11.2	13.2	15.2	17.4	18.4	18.4	18.8	18.4	18.4
80°	3.0	5.0	6.2	9.2	9.2	10.6	11.2	11.8	10.6	12.2	10.6
82.5°	2.0	3.0	4.6	4.6	5.6	6.6	6.6	7.2	7.2	6.6	6.6
85°	1.6	2.0	2.6	3.0	3.0	3.6	3.0	3.0	3.6	4.0	3.6
87.5°	0.6	1.0	0.6	1.0	1.0	2.0	1.6	1.6	1.6	2.0	2.0
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):

	165°	170°	175°	180°
0°	960.1	960.1	960.1	960.1
2.5°	961.1	961.6	961.1	961.1
5°	965.7	965.2	965.7	964.7
7.5°	969.3	969.3	968.8	968.8
10°	969.3	967.3	967.3	967.3
12.5°	961.6	959.1	957.6	956.5
15°	948.4	943.8	941.8	941.3
17.5°	931.1	927.0	924.5	922.9
20°	911.1	907.1	904.1	904.5
22.5°	893.9	889.3	887.3	886.3
25°	876.5	870.9	869.4	868.4
27.5°	848.5	845.5	843.9	842.4
30°	805.7	804.2	801.6	805.2
32.5°	756.2	753.8	751.7	753.2
35°	701.7	700.2	701.7	700.7
37.5°	651.9	653.3	655.3	656.3
40°	612.5	618.1	620.2	621.3
42.5°	573.3	579.9	584.0	586.6
45°	524.9	531.6	536.1	539.2
47.5°	475.0	480.6	485.2	484.6
50°	429.6	432.7	434.7	436.7
52.5°	383.7	383.7	384.3	384.3
55°	331.8	330.7	330.2	330.7
57.5°	274.6	273.6	273.2	271.6
60°	222.7	219.6	217.6	217.6
62.5°	174.3	170.7	169.2	168.7
65°	130.9	130.5	127.3	126.9
67.5°	94.8	92.7	90.7	91.2
70°	66.8	63.7	63.7	62.7
72.5°	43.3	41.8	41.3	41.3
75°	27.0	27.0	26.0	28.0
77.5°	17.8	17.8	17.4	17.8
80°	10.6	10.6	10.6	10.2
82.5°	6.6	7.2	6.6	6.6
85°	3.6	4.0	3.0	4.6
87.5°	2.0	2.6	2.0	2.6
90°	0.0	0.0	0.0	0.0

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