

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: P245018

Luminaire Tested: **LSR8B20D010 EC8B209730 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B209730 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1602.0 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

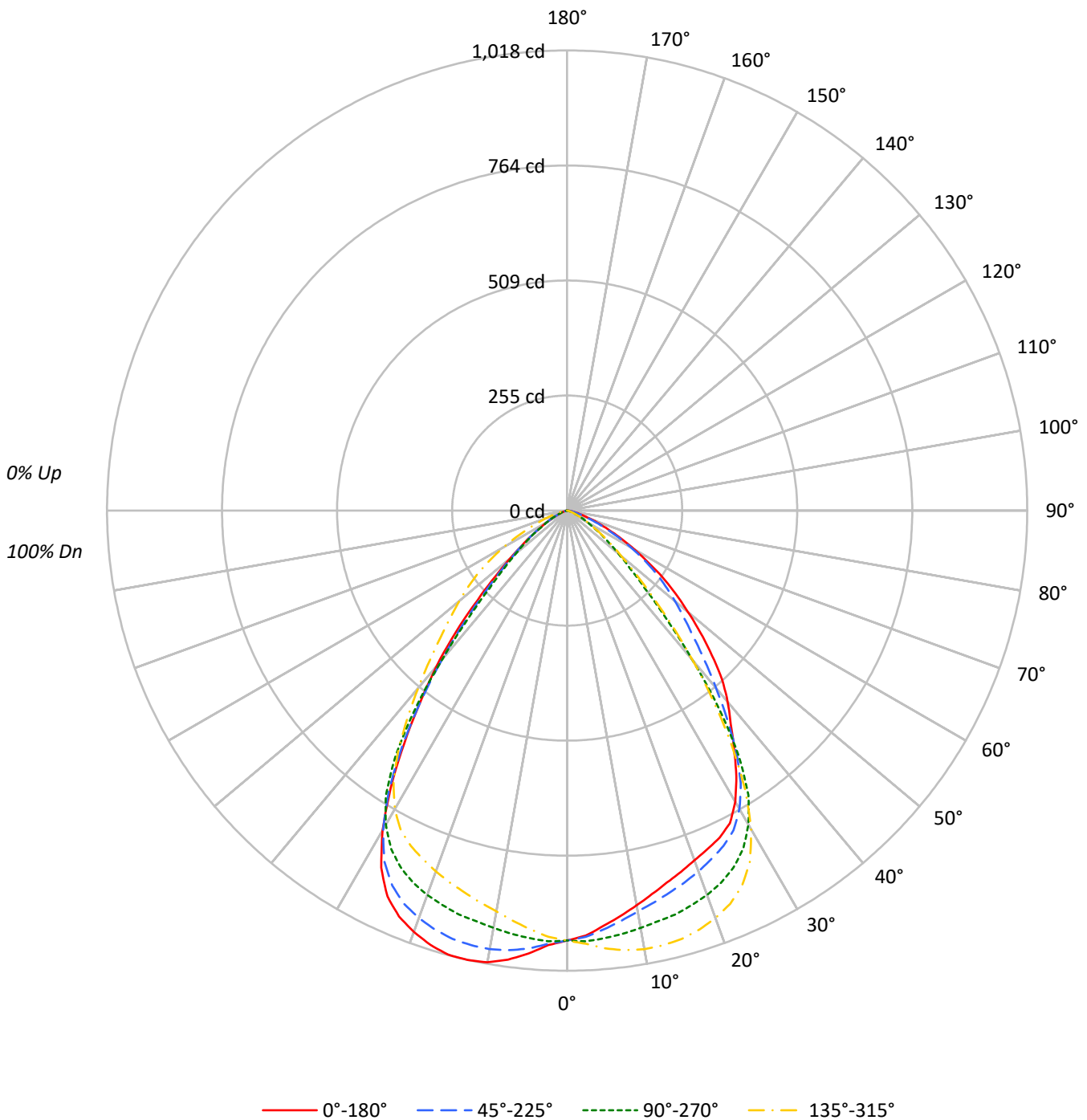
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
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°	90.5	5.7
10°-20°	262.1	16.4
20°-30°	396.9	24.8
30°-40°	397.8	24.8
40°-50°	249.8	15.6
50°-60°	133.1	8.3
60°-70°	54.7	3.4
70°-80°	14.5	0.9
80°-90°	2.4	0.2
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°	749.6	46.8
0°-40°	1147.4	71.6
0°-60°	1530.4	95.5
0°-90°	1602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1602.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	951	951	951	951	951	
5°	922	950	984	950	922	87
15°	852	925	1017	925	852	241
25°	798	871	941	871	798	366
35°	644	662	628	662	644	403
45°	453	242	280	242	453	349
55°	258	90	95	90	258	230
65°	103	27	25	27	103	106
75°	29	6	5	6	29	33
85°	6	0	0	0	6	7
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°	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1
2.5°	941.3	940.4	939.9	940.8	941.3	943.2	942.7	943.6	943.6	944.1	945.0
5°	922.3	921.8	922.3	922.3	924.1	926.0	925.5	926.9	927.8	930.2	931.1
7.5°	904.6	904.6	904.1	906.0	906.9	909.7	909.3	911.6	913.0	915.3	918.5
10°	886.5	886.5	887.0	888.4	888.8	893.0	893.0	896.3	898.1	900.4	904.6
12.5°	868.9	868.9	871.7	870.7	872.6	875.8	877.2	880.5	883.3	887.9	892.1
15°	852.1	852.1	853.1	855.4	856.8	861.0	863.3	867.0	870.3	874.9	880.9
17.5°	837.7	837.3	837.7	840.5	843.3	847.0	848.9	853.5	856.8	862.8	868.4
20°	823.4	824.3	824.3	826.6	828.5	833.1	835.0	840.1	843.8	849.3	855.9
22.5°	810.8	810.4	810.4	813.6	815.0	819.2	821.0	825.7	829.9	834.5	840.5
25°	798.3	797.3	799.2	799.7	800.6	805.2	806.6	809.9	814.1	818.2	824.3
27.5°	779.7	778.8	779.2	781.1	782.5	786.2	787.1	790.4	793.6	797.3	802.5
30°	743.9	743.0	742.6	745.8	747.2	750.0	751.4	756.9	757.9	762.1	765.8
32.5°	696.6	696.1	697.0	699.8	701.2	704.9	706.8	710.0	712.4	714.7	718.4
35°	643.6	642.7	643.6	646.4	646.4	649.7	651.1	652.5	652.0	652.5	651.5
37.5°	594.4	593.9	594.4	595.8	594.4	595.8	594.4	591.6	586.5	580.9	575.4
40°	552.6	553.1	550.3	552.2	547.0	546.1	541.0	534.0	523.8	512.7	496.9
42.5°	508.0	506.6	504.8	505.7	501.5	498.3	489.9	481.1	468.1	449.5	430.5
45°	453.2	452.8	451.8	451.4	448.6	445.3	438.4	428.2	413.8	394.7	372.0
47.5°	399.8	398.4	398.4	398.9	395.6	395.2	389.6	380.8	368.3	349.7	326.0
50°	348.7	348.3	349.2	351.1	348.7	347.8	344.1	338.1	326.9	311.1	288.8
52.5°	302.8	302.3	303.3	305.6	304.6	305.6	301.9	297.2	289.8	274.4	254.9
55°	257.7	257.7	257.7	260.5	260.5	260.5	258.7	255.9	248.9	237.8	219.7
57.5°	210.8	211.3	214.1	214.5	214.1	215.0	214.5	211.7	207.1	199.2	185.3
60°	171.4	171.4	172.8	174.2	173.7	174.2	174.2	172.8	168.1	161.6	150.5
62.5°	135.6	137.0	136.1	137.0	138.8	137.0	136.1	135.1	131.9	127.7	118.4
65°	102.6	103.6	103.6	104.0	103.1	103.6	101.7	100.3	98.5	93.8	87.8
67.5°	78.0	78.0	78.0	78.0	77.5	77.1	76.6	75.2	72.0	70.1	63.6
70°	59.9	57.1	57.1	57.1	57.1	57.6	56.2	54.3	53.4	50.2	45.5
72.5°	39.9	40.9	39.9	39.9	39.0	39.5	37.6	36.7	35.8	33.9	31.1
75°	28.8	26.5	27.4	27.9	26.5	27.4	25.5	23.7	23.7	22.3	20.9
77.5°	18.6	18.1	18.6	19.0	18.6	18.1	17.2	16.2	16.2	15.8	14.4
80°	13.5	13.0	13.0	13.0	12.5	13.0	12.1	12.1	11.1	10.7	9.7
82.5°	8.8	8.8	8.4	8.8	8.4	8.8	7.4	7.4	7.4	7.0	6.0
85°	6.0	5.1	5.1	5.6	4.6	5.6	5.1	4.6	4.2	4.2	3.7
87.5°	2.8	3.2	2.8	3.2	2.8	2.8	3.2	2.8	2.8	1.9	1.9
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°	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1
2.5°	946.4	946.9	946.9	948.7	949.7	950.1	950.1	953.8	952.5	953.4	954.3
5°	933.0	935.7	936.7	936.7	941.8	943.6	945.5	949.7	950.1	952.9	956.2
7.5°	919.9	923.2	925.1	929.2	932.5	935.7	941.3	944.1	946.9	950.6	954.8
10°	907.4	911.1	914.8	918.1	923.2	927.4	931.1	937.6	940.8	946.0	951.5
12.5°	895.3	900.4	903.7	909.3	914.8	918.5	924.1	930.2	935.3	940.4	946.9
15°	884.7	890.7	894.4	900.4	906.5	911.6	917.6	925.1	928.8	934.8	940.8
17.5°	873.0	879.5	884.2	889.8	897.2	902.8	907.9	915.3	919.9	926.4	933.4
20°	861.0	867.5	873.0	878.6	886.0	891.6	897.7	905.1	910.2	916.7	922.3
22.5°	846.6	852.6	858.6	865.1	872.6	877.2	884.2	890.7	896.3	902.3	907.9
25°	828.0	835.4	840.1	846.1	852.1	857.2	864.7	871.2	875.8	881.4	886.5
27.5°	806.2	811.8	815.5	820.6	826.6	831.2	836.8	843.3	848.0	853.1	856.8
30°	769.0	774.1	777.4	781.1	787.1	791.3	796.0	802.0	805.2	809.0	812.2
32.5°	720.3	724.4	726.3	729.1	733.3	737.4	741.2	746.3	747.7	750.0	750.0
35°	649.7	650.6	650.1	651.1	652.9	655.2	658.5	661.7	663.6	663.6	662.2
37.5°	567.0	561.4	555.4	550.8	549.4	548.4	550.3	551.7	553.6	554.5	552.2
40°	481.1	468.6	455.1	443.0	434.7	431.0	429.6	430.5	430.5	433.7	433.7
42.5°	407.3	387.8	367.8	349.7	337.6	328.3	324.1	324.1	324.6	326.9	328.3
45°	346.0	321.4	298.1	278.2	261.4	249.4	243.8	242.4	242.0	242.9	246.1
47.5°	299.1	273.5	249.4	224.8	207.1	195.0	189.9	188.1	186.2	188.1	188.5
50°	262.4	235.9	210.4	185.8	167.2	156.5	150.0	147.2	146.7	146.7	147.7
52.5°	228.9	204.3	178.8	153.7	134.2	124.0	118.0	116.6	114.7	116.6	116.6
55°	197.4	172.8	147.7	124.0	107.7	97.1	91.5	89.6	88.7	90.1	90.1
57.5°	163.0	142.1	118.9	97.5	81.3	73.8	69.7	67.3	66.9	67.8	66.9
60°	133.7	116.1	96.1	76.6	64.1	56.2	52.9	52.0	51.1	52.0	52.0
62.5°	105.9	91.0	74.8	59.9	49.2	43.7	39.9	39.9	39.5	39.5	39.9
65°	78.5	66.9	55.3	42.7	34.4	30.2	27.4	27.4	26.9	27.4	26.9
67.5°	57.1	49.2	39.9	31.1	24.6	22.3	20.4	19.0	20.0	19.0	18.6
70°	41.8	35.3	28.8	23.7	19.0	16.7	15.3	14.9	13.9	13.9	13.9
72.5°	27.9	23.7	19.5	15.3	12.5	10.2	9.7	8.8	7.9	8.4	9.3
75°	18.6	15.8	13.9	11.1	8.4	8.4	5.6	5.6	4.6	5.6	4.2
77.5°	13.0	10.7	8.4	7.0	5.6	5.1	3.7	3.7	3.2	3.2	3.2
80°	9.3	7.9	6.0	5.1	3.7	3.7	3.2	2.8	2.3	2.3	2.8
82.5°	5.6	4.2	4.2	3.7	2.3	1.9	1.4	1.9	0.9	0.9	0.9
85°	3.2	2.8	2.3	1.4	0.9	0.9	0.5	0.0	0.5	0.5	0.0
87.5°	1.9	0.9	0.9	0.5	0.0	0.5	0.5	0.0	0.0	0.0	0.9
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°	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1
2.5°	956.6	956.2	957.1	957.1	959.9	959.4	960.8	960.8	959.9	960.3	962.2
5°	959.9	961.3	964.1	966.4	970.6	972.4	974.7	977.1	977.5	978.9	980.3
7.5°	959.9	964.5	967.8	971.9	977.5	980.8	985.9	990.1	991.9	994.2	997.0
10°	958.0	962.7	968.7	973.3	980.3	985.4	990.5	997.0	999.8	1003.5	1007.3
12.5°	954.3	959.4	965.9	971.9	979.8	984.5	991.0	997.0	1001.2	1006.3	1010.5
15°	948.7	954.8	960.8	966.8	975.2	980.8	986.8	993.8	998.0	1003.5	1007.3
17.5°	939.9	946.4	952.0	957.6	965.4	971.9	977.5	984.0	988.2	992.9	998.0
20°	929.2	935.3	941.3	946.0	953.8	959.4	965.4	971.5	974.7	975.7	983.6
22.5°	915.8	919.9	924.6	932.0	936.7	941.8	947.3	952.9	956.2	961.3	964.1
25°	893.5	897.7	902.8	906.0	911.6	915.8	921.3	927.4	929.2	933.0	935.7
27.5°	862.4	864.7	867.0	869.8	873.0	875.4	878.6	881.4	883.3	885.1	887.0
30°	813.1	813.1	813.1	811.3	812.7	814.1	814.5	814.1	814.1	813.6	813.6
32.5°	748.1	744.4	740.2	736.5	735.1	733.3	732.3	730.9	728.6	727.2	727.7
35°	660.3	652.0	646.9	642.2	638.5	635.7	634.3	633.0	632.5	630.6	628.8
37.5°	550.8	544.7	541.0	538.2	535.0	532.2	532.6	533.1	534.5	533.6	534.0
40°	434.7	433.3	434.7	431.4	430.5	431.4	433.7	437.0	438.8	440.7	444.0
42.5°	330.6	333.0	336.2	336.2	337.6	339.5	342.2	347.4	350.1	353.4	357.1
45°	248.9	251.7	255.9	257.3	258.2	260.5	263.8	267.9	269.8	272.6	275.8
47.5°	191.8	193.6	196.0	198.3	200.6	201.5	204.8	204.8	207.1	209.0	209.9
50°	149.5	151.4	153.2	154.6	155.6	157.0	157.9	159.3	159.7	160.7	161.1
52.5°	117.0	119.4	119.4	120.3	121.7	123.1	122.6	123.1	123.5	123.5	124.9
55°	91.5	91.5	92.9	92.9	93.8	93.3	93.8	93.8	93.8	93.8	94.3
57.5°	68.3	68.7	70.1	69.2	68.7	69.7	68.7	69.7	69.2	70.1	68.7
60°	52.5	52.5	52.9	52.9	53.4	53.4	53.4	52.9	52.9	52.5	52.5
62.5°	39.5	39.9	40.4	39.9	39.9	39.9	39.5	39.5	39.0	38.5	38.5
65°	26.5	26.0	26.9	26.0	26.5	26.5	26.0	26.5	25.1	25.5	25.1
67.5°	19.0	18.6	18.1	18.6	18.1	17.6	17.6	18.1	18.6	17.2	17.2
70°	12.5	13.0	12.5	13.0	13.5	13.5	13.0	12.5	13.0	12.1	12.5
72.5°	7.9	7.9	7.9	7.9	7.9	8.4	8.4	8.4	7.4	7.4	7.0
75°	3.7	5.1	4.2	3.7	5.1	5.1	4.6	4.6	4.2	4.2	4.2
77.5°	3.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.3	2.8	2.3
80°	1.9	1.9	1.9	1.4	1.9	1.9	2.3	1.9	1.9	1.4	2.3
82.5°	0.9	0.9	0.9	0.0	0.5	0.9	0.9	0.5	0.9	0.9	0.5
85°	0.0	0.0	0.0	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	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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1
2.5°	961.7	961.3	961.7	962.2	961.7	961.3	961.7	962.2	960.3	959.9	960.8
5°	982.2	982.2	983.1	983.6	983.1	982.2	982.2	980.3	978.9	977.5	977.1
7.5°	999.8	1000.8	1001.7	1002.1	1001.7	1000.8	999.8	997.0	994.2	991.9	990.1
10°	1010.5	1011.9	1013.8	1014.7	1013.8	1011.9	1010.5	1007.3	1003.5	999.8	997.0
12.5°	1015.1	1016.5	1018.9	1018.4	1018.9	1016.5	1015.1	1010.5	1006.3	1001.2	997.0
15°	1011.9	1013.8	1016.1	1017.0	1016.1	1013.8	1011.9	1007.3	1003.5	998.0	993.8
17.5°	1001.7	1004.5	1005.9	1007.3	1005.9	1004.5	1001.7	998.0	992.9	988.2	984.0
20°	987.7	989.6	991.5	991.9	991.5	989.6	987.7	983.6	975.7	974.7	971.5
22.5°	967.8	969.2	973.3	971.9	973.3	969.2	967.8	964.1	961.3	956.2	952.9
25°	939.0	940.4	940.8	941.3	940.8	940.4	939.0	935.7	933.0	929.2	927.4
27.5°	889.3	889.3	890.2	890.7	890.2	889.3	889.3	887.0	885.1	883.3	881.4
30°	814.1	814.1	814.1	816.4	814.1	814.1	814.1	813.6	813.6	814.1	814.1
32.5°	727.2	726.3	725.4	726.3	725.4	726.3	727.2	727.7	727.2	728.6	730.9
35°	628.8	628.3	629.7	627.9	629.7	628.3	628.8	628.8	630.6	632.5	633.0
37.5°	534.5	533.6	535.4	533.6	535.4	533.6	534.5	534.0	533.6	534.5	533.1
40°	444.9	445.8	445.8	449.5	445.8	445.8	444.9	444.0	440.7	438.8	437.0
42.5°	359.0	361.8	360.8	363.6	360.8	361.8	359.0	357.1	353.4	350.1	347.4
45°	277.7	279.6	279.6	280.5	279.6	279.6	277.7	275.8	272.6	269.8	267.9
47.5°	213.1	213.1	213.1	213.6	213.1	213.1	213.1	209.9	209.0	207.1	204.8
50°	162.1	162.5	163.0	163.5	163.0	162.5	162.1	161.1	160.7	159.7	159.3
52.5°	124.5	124.9	124.0	124.9	124.0	124.9	124.5	124.9	123.5	123.5	123.1
55°	94.3	93.8	94.3	94.7	94.3	93.8	94.3	94.3	93.8	93.8	93.8
57.5°	69.2	68.3	68.3	68.3	68.3	68.3	69.2	68.7	70.1	69.2	69.7
60°	51.6	52.0	52.0	52.5	52.0	52.0	51.6	52.5	52.5	52.9	52.9
62.5°	38.1	39.5	38.5	39.5	38.5	39.5	38.1	38.5	38.5	39.0	39.5
65°	24.6	24.6	24.6	25.1	24.6	24.6	24.6	25.1	25.5	25.1	26.5
67.5°	16.7	17.2	18.1	17.6	18.1	17.2	16.7	17.2	17.2	18.6	18.1
70°	13.5	12.1	12.1	13.5	12.1	12.1	13.5	12.5	12.1	13.0	12.5
72.5°	7.9	7.0	7.9	7.9	7.9	7.0	7.9	7.0	7.4	7.4	8.4
75°	4.2	3.7	3.2	4.6	3.2	3.7	4.2	4.2	4.2	4.2	4.6
77.5°	2.8	2.3	3.2	3.2	3.2	2.3	2.8	2.3	2.8	2.3	2.8
80°	1.4	1.9	1.4	2.3	1.4	1.9	1.4	2.3	1.4	1.9	1.9
82.5°	0.5	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.9	0.9	0.5
85°	0.0	0.9	0.5	0.5	0.5	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.5	0.0	0.0	0.5	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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1
2.5°	960.8	959.4	959.9	957.1	957.1	956.2	956.6	954.3	953.4	952.5	953.8
5°	974.7	972.4	970.6	966.4	964.1	961.3	959.9	956.2	952.9	950.1	949.7
7.5°	985.9	980.8	977.5	971.9	967.8	964.5	959.9	954.8	950.6	946.9	944.1
10°	990.5	985.4	980.3	973.3	968.7	962.7	958.0	951.5	946.0	940.8	937.6
12.5°	991.0	984.5	979.8	971.9	965.9	959.4	954.3	946.9	940.4	935.3	930.2
15°	986.8	980.8	975.2	966.8	960.8	954.8	948.7	940.8	934.8	928.8	925.1
17.5°	977.5	971.9	965.4	957.6	952.0	946.4	939.9	933.4	926.4	919.9	915.3
20°	965.4	959.4	953.8	946.0	941.3	935.3	929.2	922.3	916.7	910.2	905.1
22.5°	947.3	941.8	936.7	932.0	924.6	919.9	915.8	907.9	902.3	896.3	890.7
25°	921.3	915.8	911.6	906.0	902.8	897.7	893.5	886.5	881.4	875.8	871.2
27.5°	878.6	875.4	873.0	869.8	867.0	864.7	862.4	856.8	853.1	848.0	843.3
30°	814.5	814.1	812.7	811.3	813.1	813.1	813.1	812.2	809.0	805.2	802.0
32.5°	732.3	733.3	735.1	736.5	740.2	744.4	748.1	750.0	750.0	747.7	746.3
35°	634.3	635.7	638.5	642.2	646.9	652.0	660.3	662.2	663.6	663.6	661.7
37.5°	532.6	532.2	535.0	538.2	541.0	544.7	550.8	552.2	554.5	553.6	551.7
40°	433.7	431.4	430.5	431.4	434.7	433.3	434.7	433.7	433.7	430.5	430.5
42.5°	342.2	339.5	337.6	336.2	336.2	333.0	330.6	328.3	326.9	324.6	324.1
45°	263.8	260.5	258.2	257.3	255.9	251.7	248.9	246.1	242.9	242.0	242.4
47.5°	204.8	201.5	200.6	198.3	196.0	193.6	191.8	188.5	188.1	186.2	188.1
50°	157.9	157.0	155.6	154.6	153.2	151.4	149.5	147.7	146.7	146.7	147.2
52.5°	122.6	123.1	121.7	120.3	119.4	119.4	117.0	116.6	116.6	114.7	116.6
55°	93.8	93.3	93.8	92.9	92.9	91.5	91.5	90.1	90.1	88.7	89.6
57.5°	68.7	69.7	68.7	69.2	70.1	68.7	68.3	66.9	67.8	66.9	67.3
60°	53.4	53.4	53.4	52.9	52.9	52.5	52.5	52.0	52.0	51.1	52.0
62.5°	39.5	39.9	39.9	39.9	40.4	39.9	39.5	39.9	39.5	39.5	39.9
65°	26.0	26.5	26.5	26.0	26.9	26.0	26.5	26.9	27.4	26.9	27.4
67.5°	17.6	17.6	18.1	18.6	18.1	18.6	19.0	18.6	19.0	20.0	19.0
70°	13.0	13.5	13.5	13.0	12.5	13.0	12.5	13.9	13.9	13.9	14.9
72.5°	8.4	8.4	7.9	7.9	7.9	7.9	7.9	9.3	8.4	7.9	8.8
75°	4.6	5.1	5.1	3.7	4.2	5.1	3.7	4.2	5.6	4.6	5.6
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	3.7	3.2	3.2	3.2	3.7
80°	2.3	1.9	1.9	1.4	1.9	1.9	1.9	2.8	2.3	2.3	2.8
82.5°	0.9	0.9	0.5	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	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):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1	951.1
2.5°	950.1	950.1	949.7	948.7	946.9	946.9	946.4	945.0	944.1	943.6	943.6
5°	945.5	943.6	941.8	936.7	936.7	935.7	933.0	931.1	930.2	927.8	926.9
7.5°	941.3	935.7	932.5	929.2	925.1	923.2	919.9	918.5	915.3	913.0	911.6
10°	931.1	927.4	923.2	918.1	914.8	911.1	907.4	904.6	900.4	898.1	896.3
12.5°	924.1	918.5	914.8	909.3	903.7	900.4	895.3	892.1	887.9	883.3	880.5
15°	917.6	911.6	906.5	900.4	894.4	890.7	884.7	880.9	874.9	870.3	867.0
17.5°	907.9	902.8	897.2	889.8	884.2	879.5	873.0	868.4	862.8	856.8	853.5
20°	897.7	891.6	886.0	878.6	873.0	867.5	861.0	855.9	849.3	843.8	840.1
22.5°	884.2	877.2	872.6	865.1	858.6	852.6	846.6	840.5	834.5	829.9	825.7
25°	864.7	857.2	852.1	846.1	840.1	835.4	828.0	824.3	818.2	814.1	809.9
27.5°	836.8	831.2	826.6	820.6	815.5	811.8	806.2	802.5	797.3	793.6	790.4
30°	796.0	791.3	787.1	781.1	777.4	774.1	769.0	765.8	762.1	757.9	756.9
32.5°	741.2	737.4	733.3	729.1	726.3	724.4	720.3	718.4	714.7	712.4	710.0
35°	658.5	655.2	652.9	651.1	650.1	650.6	649.7	651.5	652.5	652.0	652.5
37.5°	550.3	548.4	549.4	550.8	555.4	561.4	567.0	575.4	580.9	586.5	591.6
40°	429.6	431.0	434.7	443.0	455.1	468.6	481.1	496.9	512.7	523.8	534.0
42.5°	324.1	328.3	337.6	349.7	367.8	387.8	407.3	430.5	449.5	468.1	481.1
45°	243.8	249.4	261.4	278.2	298.1	321.4	346.0	372.0	394.7	413.8	428.2
47.5°	189.9	195.0	207.1	224.8	249.4	273.5	299.1	326.0	349.7	368.3	380.8
50°	150.0	156.5	167.2	185.8	210.4	235.9	262.4	288.8	311.1	326.9	338.1
52.5°	118.0	124.0	134.2	153.7	178.8	204.3	228.9	254.9	274.4	289.8	297.2
55°	91.5	97.1	107.7	124.0	147.7	172.8	197.4	219.7	237.8	248.9	255.9
57.5°	69.7	73.8	81.3	97.5	118.9	142.1	163.0	185.3	199.2	207.1	211.7
60°	52.9	56.2	64.1	76.6	96.1	116.1	133.7	150.5	161.6	168.1	172.8
62.5°	39.9	43.7	49.2	59.9	74.8	91.0	105.9	118.4	127.7	131.9	135.1
65°	27.4	30.2	34.4	42.7	55.3	66.9	78.5	87.8	93.8	98.5	100.3
67.5°	20.4	22.3	24.6	31.1	39.9	49.2	57.1	63.6	70.1	72.0	75.2
70°	15.3	16.7	19.0	23.7	28.8	35.3	41.8	45.5	50.2	53.4	54.3
72.5°	9.7	10.2	12.5	15.3	19.5	23.7	27.9	31.1	33.9	35.8	36.7
75°	5.6	8.4	8.4	11.1	13.9	15.8	18.6	20.9	22.3	23.7	23.7
77.5°	3.7	5.1	5.6	7.0	8.4	10.7	13.0	14.4	15.8	16.2	16.2
80°	3.2	3.7	3.7	5.1	6.0	7.9	9.3	9.7	10.7	11.1	12.1
82.5°	1.4	1.9	2.3	3.7	4.2	4.2	5.6	6.0	7.0	7.4	7.4
85°	0.5	0.9	0.9	1.4	2.3	2.8	3.2	3.7	4.2	4.2	4.6
87.5°	0.5	0.5	0.0	0.5	0.9	0.9	1.9	1.9	1.9	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P245018

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	951.1	951.1	951.1	951.1	951.1	951.1	951.1
2.5°	942.7	943.2	941.3	940.8	939.9	940.4	941.3
5°	925.5	926.0	924.1	922.3	922.3	921.8	922.3
7.5°	909.3	909.7	906.9	906.0	904.1	904.6	904.6
10°	893.0	893.0	888.8	888.4	887.0	886.5	886.5
12.5°	877.2	875.8	872.6	870.7	871.7	868.9	868.9
15°	863.3	861.0	856.8	855.4	853.1	852.1	852.1
17.5°	848.9	847.0	843.3	840.5	837.7	837.3	837.7
20°	835.0	833.1	828.5	826.6	824.3	824.3	823.4
22.5°	821.0	819.2	815.0	813.6	810.4	810.4	810.8
25°	806.6	805.2	800.6	799.7	799.2	797.3	798.3
27.5°	787.1	786.2	782.5	781.1	779.2	778.8	779.7
30°	751.4	750.0	747.2	745.8	742.6	743.0	743.9
32.5°	706.8	704.9	701.2	699.8	697.0	696.1	696.6
35°	651.1	649.7	646.4	646.4	643.6	642.7	643.6
37.5°	594.4	595.8	594.4	595.8	594.4	593.9	594.4
40°	541.0	546.1	547.0	552.2	550.3	553.1	552.6
42.5°	489.9	498.3	501.5	505.7	504.8	506.6	508.0
45°	438.4	445.3	448.6	451.4	451.8	452.8	453.2
47.5°	389.6	395.2	395.6	398.9	398.4	398.4	399.8
50°	344.1	347.8	348.7	351.1	349.2	348.3	348.7
52.5°	301.9	305.6	304.6	305.6	303.3	302.3	302.8
55°	258.7	260.5	260.5	260.5	257.7	257.7	257.7
57.5°	214.5	215.0	214.1	214.5	214.1	211.3	210.8
60°	174.2	174.2	173.7	174.2	172.8	171.4	171.4
62.5°	136.1	137.0	138.8	137.0	136.1	137.0	135.6
65°	101.7	103.6	103.1	104.0	103.6	103.6	102.6
67.5°	76.6	77.1	77.5	78.0	78.0	78.0	78.0
70°	56.2	57.6	57.1	57.1	57.1	57.1	59.9
72.5°	37.6	39.5	39.0	39.9	39.9	40.9	39.9
75°	25.5	27.4	26.5	27.9	27.4	26.5	28.8
77.5°	17.2	18.1	18.6	19.0	18.6	18.1	18.6
80°	12.1	13.0	12.5	13.0	13.0	13.0	13.5
82.5°	7.4	8.8	8.4	8.8	8.4	8.8	8.8
85°	5.1	5.6	4.6	5.6	5.1	5.1	6.0
87.5°	3.2	2.8	2.8	3.2	2.8	3.2	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)