

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: P245882

Luminaire Tested: **LD8B20D010 ER8B20930 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245882
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: LD8B20D010 ER8B20930 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1675.9 lumens
Efficiency: N/A
Efficacy: 78.7 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

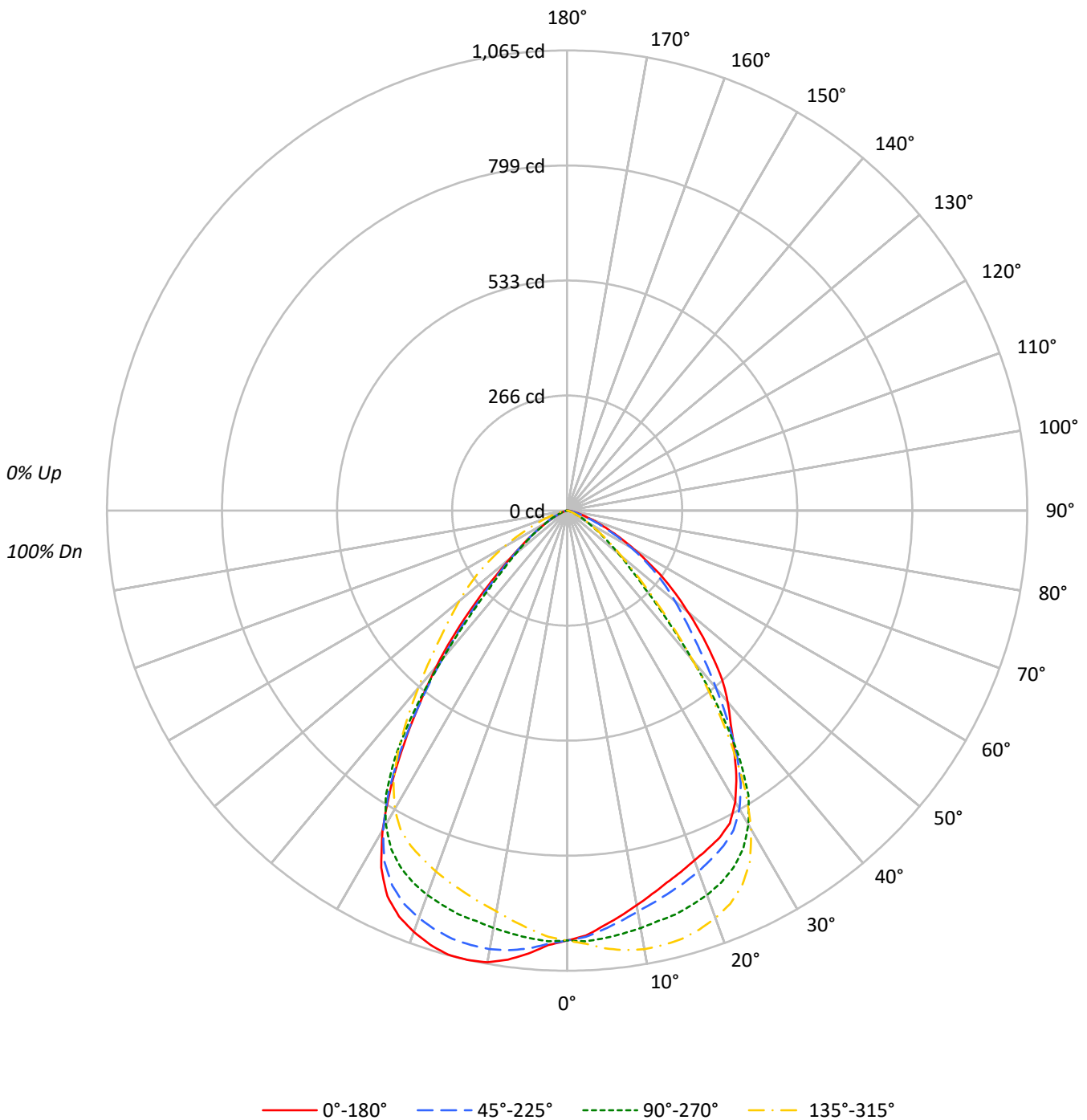
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	94.7	5.7
10°-20°	274.2	16.4
20°-30°	415.2	24.8
30°-40°	416.2	24.8
40°-50°	261.3	15.6
50°-60°	139.3	8.3
60°-70°	57.3	3.4
70°-80°	15.1	0.9
80°-90°	2.6	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°	784.2	46.8
0°-40°	1200.3	71.6
0°-60°	1600.9	95.5
0°-90°	1675.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	995	995	995	995	995	
5°	965	993	1029	993	965	91
15°	891	968	1064	968	891	252
25°	835	911	985	911	835	383
35°	673	692	657	692	673	422
45°	474	254	294	254	474	365
55°	270	94	99	94	270	240
65°	107	29	26	29	107	111
75°	30	6	5	6	30	34
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°	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9
2.5°	984.7	983.8	983.2	984.2	984.7	986.7	986.1	987.2	987.2	987.6	988.6
5°	964.8	964.3	964.8	964.8	966.8	968.7	968.2	969.7	970.7	973.0	974.0
7.5°	946.3	946.3	945.9	947.8	948.8	951.7	951.2	953.6	955.1	957.6	960.9
10°	927.4	927.4	927.9	929.3	929.9	934.2	934.2	937.6	939.5	942.0	946.3
12.5°	908.9	908.9	911.8	910.9	912.8	916.2	917.7	921.1	924.0	928.9	933.2
15°	891.4	891.4	892.4	894.9	896.4	900.7	903.1	907.0	910.4	915.3	921.6
17.5°	876.4	875.9	876.4	879.3	882.2	886.2	888.1	892.9	896.4	902.6	908.5
20°	861.4	862.3	862.3	864.7	866.6	871.6	873.5	878.9	882.7	888.5	895.3
22.5°	848.3	847.7	847.7	851.2	852.6	857.0	858.9	863.7	868.1	873.0	879.3
25°	835.1	834.1	836.0	836.6	837.5	842.4	843.9	847.3	851.6	856.0	862.3
27.5°	815.6	814.7	815.2	817.1	818.6	822.5	823.5	826.8	830.2	834.1	839.5
30°	778.2	777.3	776.9	780.2	781.7	784.6	786.0	791.9	792.8	797.3	801.1
32.5°	728.6	728.2	729.2	732.1	733.6	737.5	739.4	742.8	745.2	747.7	751.5
35°	673.3	672.4	673.3	676.3	676.3	679.7	681.1	682.6	682.0	682.6	681.6
37.5°	621.8	621.4	621.8	623.3	621.8	623.3	621.8	618.9	613.6	607.7	601.9
40°	578.1	578.5	575.6	577.7	572.3	571.3	566.0	558.7	547.9	536.3	519.8
42.5°	531.5	530.0	528.1	529.0	524.6	521.3	512.5	503.3	489.7	470.3	450.3
45°	474.2	473.6	472.7	472.2	469.3	465.9	458.6	448.0	432.8	413.0	389.1
47.5°	418.2	416.8	416.8	417.3	413.9	413.4	407.6	398.4	385.3	365.8	341.0
50°	364.8	364.3	365.3	367.2	364.8	363.9	360.0	353.7	342.0	325.5	302.1
52.5°	316.7	316.2	317.2	319.7	318.7	319.7	315.8	311.0	303.1	287.1	266.7
55°	269.6	269.6	269.6	272.5	272.5	272.5	270.6	267.7	260.4	248.7	229.8
57.5°	220.6	221.1	224.0	224.4	224.0	225.0	224.4	221.5	216.7	208.4	193.8
60°	179.2	179.2	180.7	182.2	181.7	182.2	182.2	180.7	175.9	169.0	157.4
62.5°	141.8	143.3	142.4	143.3	145.3	143.3	142.4	141.4	138.0	133.6	123.9
65°	107.4	108.3	108.3	108.8	107.8	108.3	106.4	104.9	103.0	98.1	91.8
67.5°	81.6	81.6	81.6	81.6	81.2	80.6	80.2	78.7	75.3	73.3	66.6
70°	62.7	59.7	59.7	59.7	59.7	60.2	58.7	56.8	55.8	52.5	47.6
72.5°	41.8	42.7	41.8	41.8	40.8	41.3	39.3	38.3	37.4	35.4	32.5
75°	30.2	27.7	28.7	29.1	27.7	28.7	26.7	24.8	24.8	23.3	21.9
77.5°	19.4	18.9	19.4	20.0	19.4	18.9	17.9	17.0	17.0	16.5	15.0
80°	14.1	13.6	13.6	13.6	13.1	13.6	12.7	12.7	11.7	11.2	10.2
82.5°	9.2	9.2	8.7	9.2	8.7	9.2	7.7	7.7	7.7	7.3	6.3
85°	6.3	5.4	5.4	5.8	4.8	5.8	5.4	4.8	4.4	4.4	3.9
87.5°	2.9	3.4	2.9	3.4	2.9	2.9	3.4	2.9	2.9	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°	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9
2.5°	990.1	990.5	990.5	992.5	993.4	994.0	994.0	997.8	996.3	997.4	998.4
5°	975.9	978.9	979.9	979.9	985.2	987.2	989.1	993.4	994.0	996.9	1000.3
7.5°	962.4	965.7	967.8	972.1	975.5	978.9	984.7	987.6	990.5	994.4	998.8
10°	949.3	953.2	957.0	960.5	965.7	970.1	974.0	980.9	984.2	989.6	995.4
12.5°	936.6	942.0	945.3	951.2	957.0	960.9	966.8	973.0	978.4	983.8	990.5
15°	925.5	931.8	935.7	942.0	948.3	953.6	959.9	967.8	971.6	978.0	984.2
17.5°	913.3	920.1	924.9	930.8	938.6	944.4	949.7	957.6	962.4	969.2	976.5
20°	900.7	907.4	913.3	919.1	927.0	932.8	939.1	946.8	952.2	959.0	964.8
22.5°	885.6	892.0	898.3	905.1	912.8	917.7	924.9	931.8	937.6	943.9	949.7
25°	866.2	873.9	878.9	885.1	891.4	896.8	904.5	911.4	916.2	922.0	927.4
27.5°	843.3	849.2	853.1	858.5	864.7	869.6	875.4	882.2	887.0	892.4	896.4
30°	804.4	809.8	813.3	817.1	823.5	827.9	832.7	839.0	842.4	846.2	849.7
32.5°	753.4	757.9	759.8	762.7	767.1	771.5	775.4	780.7	782.1	784.6	784.6
35°	679.7	680.6	680.1	681.1	683.0	685.5	688.9	692.2	694.2	694.2	692.8
37.5°	593.1	587.3	581.0	576.2	574.7	573.7	575.6	577.1	579.1	580.0	577.7
40°	503.3	490.2	476.1	463.4	454.7	450.9	449.4	450.3	450.3	453.8	453.8
42.5°	426.1	405.7	384.7	365.8	353.2	343.5	339.1	339.1	339.6	342.0	343.5
45°	362.0	336.2	311.9	291.0	273.5	260.9	255.0	253.6	253.1	254.0	257.5
47.5°	312.9	286.2	260.9	235.2	216.7	204.0	198.8	196.7	194.8	196.7	197.3
50°	274.5	246.8	220.1	194.3	174.9	163.7	156.9	154.0	153.5	153.5	154.5
52.5°	239.4	213.8	187.1	160.9	140.3	129.7	123.4	122.0	119.9	122.0	122.0
55°	206.5	180.7	154.5	129.7	112.7	101.6	95.7	93.7	92.8	94.3	94.3
57.5°	170.5	148.6	124.4	102.0	85.0	77.2	72.9	70.4	70.0	71.0	70.0
60°	139.9	121.4	100.6	80.2	67.0	58.7	55.4	54.4	53.5	54.4	54.4
62.5°	110.8	95.2	78.2	62.7	51.5	45.6	41.8	41.8	41.3	41.3	41.8
65°	82.1	70.0	57.8	44.7	36.0	31.6	28.7	28.7	28.1	28.7	28.1
67.5°	59.7	51.5	41.8	32.5	25.8	23.3	21.4	20.0	20.9	20.0	19.4
70°	43.7	36.9	30.2	24.8	20.0	17.5	16.0	15.6	14.6	14.6	14.6
72.5°	29.1	24.8	20.4	16.0	13.1	10.6	10.2	9.2	8.3	8.7	9.8
75°	19.4	16.5	14.6	11.7	8.7	8.7	5.8	5.8	4.8	5.8	4.4
77.5°	13.6	11.2	8.7	7.3	5.8	5.4	3.9	3.9	3.4	3.4	3.4
80°	9.8	8.3	6.3	5.4	3.9	3.9	3.4	2.9	2.5	2.5	2.9
82.5°	5.8	4.4	4.4	3.9	2.5	1.9	1.5	1.9	1.0	1.0	1.0
85°	3.4	2.9	2.5	1.5	1.0	1.0	0.4	0.0	0.4	0.4	0.0
87.5°	1.9	1.0	1.0	0.4	0.0	0.4	0.4	0.0	0.0	0.0	1.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9
2.5°	1000.7	1000.3	1001.3	1001.3	1004.2	1003.6	1005.1	1005.1	1004.2	1004.6	1006.5
5°	1004.2	1005.6	1008.6	1010.9	1015.3	1017.3	1019.7	1022.1	1022.6	1024.0	1025.5
7.5°	1004.2	1009.0	1012.4	1016.7	1022.6	1026.1	1031.3	1035.7	1037.7	1040.1	1043.0
10°	1002.2	1007.1	1013.4	1018.2	1025.5	1030.9	1036.3	1043.0	1045.9	1049.8	1053.7
12.5°	998.4	1003.6	1010.5	1016.7	1025.0	1029.9	1036.7	1043.0	1047.4	1052.7	1057.1
15°	992.5	998.8	1005.1	1011.5	1020.2	1026.1	1032.3	1039.6	1044.0	1049.8	1053.7
17.5°	983.2	990.1	995.9	1001.7	1010.0	1016.7	1022.6	1029.4	1033.8	1038.6	1044.0
20°	972.1	978.4	984.7	989.6	997.8	1003.6	1010.0	1016.3	1019.7	1020.7	1029.0
22.5°	958.0	962.4	967.2	975.0	979.9	985.2	991.1	996.9	1000.3	1005.6	1008.6
25°	934.7	939.1	944.4	947.8	953.6	958.0	963.8	970.1	972.1	975.9	978.9
27.5°	902.2	904.5	907.0	909.9	913.3	915.7	919.1	922.0	924.0	925.9	927.9
30°	850.6	850.6	850.6	848.7	850.2	851.6	852.1	851.6	851.6	851.2	851.2
32.5°	782.7	778.8	774.4	770.5	769.0	767.1	766.1	764.6	762.3	760.8	761.3
35°	690.8	682.0	676.7	671.8	668.0	665.1	663.6	662.2	661.7	659.7	657.8
37.5°	576.2	569.8	566.0	563.1	559.6	556.7	557.2	557.7	559.2	558.1	558.7
40°	454.7	453.2	454.7	451.3	450.3	451.3	453.8	457.1	459.0	461.1	464.4
42.5°	345.9	348.3	351.8	351.8	353.2	355.1	358.0	363.4	366.3	369.7	373.6
45°	260.4	263.3	267.7	269.2	270.2	272.5	276.0	280.2	282.3	285.2	288.5
47.5°	200.7	202.6	205.0	207.4	209.9	210.9	214.2	214.2	216.7	218.6	219.6
50°	156.4	158.4	160.3	161.8	162.8	164.2	165.1	166.6	167.1	168.0	168.6
52.5°	122.4	124.9	124.9	125.8	127.2	128.7	128.2	128.7	129.3	129.3	130.7
55°	95.7	95.7	97.2	97.2	98.1	97.6	98.1	98.1	98.1	98.1	98.6
57.5°	71.4	71.9	73.3	72.4	71.9	72.9	71.9	72.9	72.4	73.3	71.9
60°	54.9	54.9	55.4	55.4	55.8	55.8	55.8	55.4	55.4	54.9	54.9
62.5°	41.3	41.8	42.3	41.8	41.8	41.8	41.3	41.3	40.8	40.4	40.4
65°	27.7	27.2	28.1	27.2	27.7	27.7	27.2	27.7	26.2	26.7	26.2
67.5°	20.0	19.4	18.9	19.4	18.9	18.5	18.5	18.9	19.4	17.9	17.9
70°	13.1	13.6	13.1	13.6	14.1	14.1	13.6	13.1	13.6	12.7	13.1
72.5°	8.3	8.3	8.3	8.3	8.3	8.7	8.7	8.7	7.7	7.7	7.3
75°	3.9	5.4	4.4	3.9	5.4	5.4	4.8	4.8	4.4	4.4	4.4
77.5°	3.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.5	2.9	2.5
80°	1.9	1.9	1.9	1.5	1.9	1.9	2.5	1.9	1.9	1.5	2.5
82.5°	1.0	1.0	1.0	0.0	0.4	1.0	1.0	0.4	1.0	1.0	0.4
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°	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9
2.5°	1006.1	1005.6	1006.1	1006.5	1006.1	1005.6	1006.1	1006.5	1004.6	1004.2	1005.1
5°	1027.5	1027.5	1028.4	1029.0	1028.4	1027.5	1027.5	1025.5	1024.0	1022.6	1022.1
7.5°	1045.9	1046.9	1047.9	1048.4	1047.9	1046.9	1045.9	1043.0	1040.1	1037.7	1035.7
10°	1057.1	1058.6	1060.5	1061.5	1060.5	1058.6	1057.1	1053.7	1049.8	1045.9	1043.0
12.5°	1061.9	1063.4	1065.8	1065.4	1065.8	1063.4	1061.9	1057.1	1052.7	1047.4	1043.0
15°	1058.6	1060.5	1062.9	1063.9	1062.9	1060.5	1058.6	1053.7	1049.8	1044.0	1039.6
17.5°	1047.9	1050.8	1052.3	1053.7	1052.3	1050.8	1047.9	1044.0	1038.6	1033.8	1029.4
20°	1033.3	1035.2	1037.1	1037.7	1037.1	1035.2	1033.3	1029.0	1020.7	1019.7	1016.3
22.5°	1012.4	1013.8	1018.2	1016.7	1018.2	1013.8	1012.4	1008.6	1005.6	1000.3	996.9
25°	982.3	983.8	984.2	984.7	984.2	983.8	982.3	978.9	975.9	972.1	970.1
27.5°	930.3	930.3	931.3	931.8	931.3	930.3	930.3	927.9	925.9	924.0	922.0
30°	851.6	851.6	851.6	854.1	851.6	851.6	851.6	851.2	851.2	851.6	851.6
32.5°	760.8	759.8	758.8	759.8	758.8	759.8	760.8	761.3	760.8	762.3	764.6
35°	657.8	657.2	658.7	656.8	658.7	657.2	657.8	657.8	659.7	661.7	662.2
37.5°	559.2	558.1	560.2	558.1	560.2	558.1	559.2	558.7	558.1	559.2	557.7
40°	465.4	466.3	466.3	470.3	466.3	466.3	465.4	464.4	461.1	459.0	457.1
42.5°	375.5	378.4	377.4	380.4	377.4	378.4	375.5	373.6	369.7	366.3	363.4
45°	290.5	292.5	292.5	293.5	292.5	292.5	290.5	288.5	285.2	282.3	280.2
47.5°	223.0	223.0	223.0	223.5	223.0	223.0	223.0	219.6	218.6	216.7	214.2
50°	169.5	170.1	170.5	171.0	170.5	170.1	169.5	168.6	168.0	167.1	166.6
52.5°	130.1	130.7	129.7	130.7	129.7	130.7	130.1	130.7	129.3	129.3	128.7
55°	98.6	98.1	98.6	99.1	98.6	98.1	98.6	98.6	98.1	98.1	98.1
57.5°	72.4	71.4	71.4	71.4	71.4	71.4	72.4	71.9	73.3	72.4	72.9
60°	53.9	54.4	54.4	54.9	54.4	54.4	53.9	54.9	54.9	55.4	55.4
62.5°	39.8	41.3	40.4	41.3	40.4	41.3	39.8	40.4	40.4	40.8	41.3
65°	25.8	25.8	25.8	26.2	25.8	25.8	25.8	26.2	26.7	26.2	27.7
67.5°	17.5	17.9	18.9	18.5	18.9	17.9	17.5	17.9	17.9	19.4	18.9
70°	14.1	12.7	12.7	14.1	12.7	12.7	14.1	13.1	12.7	13.6	13.1
72.5°	8.3	7.3	8.3	8.3	8.3	7.3	8.3	7.3	7.7	7.7	8.7
75°	4.4	3.9	3.4	4.8	3.4	3.9	4.4	4.4	4.4	4.4	4.8
77.5°	2.9	2.5	3.4	3.4	3.4	2.5	2.9	2.5	2.9	2.5	2.9
80°	1.5	1.9	1.5	2.5	1.5	1.9	1.5	2.5	1.5	1.9	1.9
82.5°	0.4	1.0	1.0	1.0	1.0	1.0	0.4	0.4	1.0	1.0	0.4
85°	0.0	1.0	0.4	0.4	0.4	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.0	0.0	0.4	0.0	0.0	0.4	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°	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9
2.5°	1005.1	1003.6	1004.2	1001.3	1001.3	1000.3	1000.7	998.4	997.4	996.3	997.8
5°	1019.7	1017.3	1015.3	1010.9	1008.6	1005.6	1004.2	1000.3	996.9	994.0	993.4
7.5°	1031.3	1026.1	1022.6	1016.7	1012.4	1009.0	1004.2	998.8	994.4	990.5	987.6
10°	1036.3	1030.9	1025.5	1018.2	1013.4	1007.1	1002.2	995.4	989.6	984.2	980.9
12.5°	1036.7	1029.9	1025.0	1016.7	1010.5	1003.6	998.4	990.5	983.8	978.4	973.0
15°	1032.3	1026.1	1020.2	1011.5	1005.1	998.8	992.5	984.2	978.0	971.6	967.8
17.5°	1022.6	1016.7	1010.0	1001.7	995.9	990.1	983.2	976.5	969.2	962.4	957.6
20°	1010.0	1003.6	997.8	989.6	984.7	978.4	972.1	964.8	959.0	952.2	946.8
22.5°	991.1	985.2	979.9	975.0	967.2	962.4	958.0	949.7	943.9	937.6	931.8
25°	963.8	958.0	953.6	947.8	944.4	939.1	934.7	927.4	922.0	916.2	911.4
27.5°	919.1	915.7	913.3	909.9	907.0	904.5	902.2	896.4	892.4	887.0	882.2
30°	852.1	851.6	850.2	848.7	850.6	850.6	850.6	849.7	846.2	842.4	839.0
32.5°	766.1	767.1	769.0	770.5	774.4	778.8	782.7	784.6	784.6	782.1	780.7
35°	663.6	665.1	668.0	671.8	676.7	682.0	690.8	692.8	694.2	694.2	692.2
37.5°	557.2	556.7	559.6	563.1	566.0	569.8	576.2	577.7	580.0	579.1	577.1
40°	453.8	451.3	450.3	451.3	454.7	453.2	454.7	453.8	453.8	450.3	450.3
42.5°	358.0	355.1	353.2	351.8	351.8	348.3	345.9	343.5	342.0	339.6	339.1
45°	276.0	272.5	270.2	269.2	267.7	263.3	260.4	257.5	254.0	253.1	253.6
47.5°	214.2	210.9	209.9	207.4	205.0	202.6	200.7	197.3	196.7	194.8	196.7
50°	165.1	164.2	162.8	161.8	160.3	158.4	156.4	154.5	153.5	153.5	154.0
52.5°	128.2	128.7	127.2	125.8	124.9	124.9	122.4	122.0	122.0	119.9	122.0
55°	98.1	97.6	98.1	97.2	97.2	95.7	95.7	94.3	94.3	92.8	93.7
57.5°	71.9	72.9	71.9	72.4	73.3	71.9	71.4	70.0	71.0	70.0	70.4
60°	55.8	55.8	55.8	55.4	55.4	54.9	54.9	54.4	54.4	53.5	54.4
62.5°	41.3	41.8	41.8	41.8	42.3	41.8	41.3	41.8	41.3	41.3	41.8
65°	27.2	27.7	27.7	27.2	28.1	27.2	27.7	28.1	28.7	28.1	28.7
67.5°	18.5	18.5	18.9	19.4	18.9	19.4	20.0	19.4	20.0	20.9	20.0
70°	13.6	14.1	14.1	13.6	13.1	13.6	13.1	14.6	14.6	14.6	15.6
72.5°	8.7	8.7	8.3	8.3	8.3	8.3	8.3	9.8	8.7	8.3	9.2
75°	4.8	5.4	5.4	3.9	4.4	5.4	3.9	4.4	5.8	4.8	5.8
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.4	3.4	3.4	3.9
80°	2.5	1.9	1.9	1.5	1.9	1.9	1.9	2.9	2.5	2.5	2.9
82.5°	1.0	1.0	0.4	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9	994.9
2.5°	994.0	994.0	993.4	992.5	990.5	990.5	990.1	988.6	987.6	987.2	987.2
5°	989.1	987.2	985.2	979.9	979.9	978.9	975.9	974.0	973.0	970.7	969.7
7.5°	984.7	978.9	975.5	972.1	967.8	965.7	962.4	960.9	957.6	955.1	953.6
10°	974.0	970.1	965.7	960.5	957.0	953.2	949.3	946.3	942.0	939.5	937.6
12.5°	966.8	960.9	957.0	951.2	945.3	942.0	936.6	933.2	928.9	924.0	921.1
15°	959.9	953.6	948.3	942.0	935.7	931.8	925.5	921.6	915.3	910.4	907.0
17.5°	949.7	944.4	938.6	930.8	924.9	920.1	913.3	908.5	902.6	896.4	892.9
20°	939.1	932.8	927.0	919.1	913.3	907.4	900.7	895.3	888.5	882.7	878.9
22.5°	924.9	917.7	912.8	905.1	898.3	892.0	885.6	879.3	873.0	868.1	863.7
25°	904.5	896.8	891.4	885.1	878.9	873.9	866.2	862.3	856.0	851.6	847.3
27.5°	875.4	869.6	864.7	858.5	853.1	849.2	843.3	839.5	834.1	830.2	826.8
30°	832.7	827.9	823.5	817.1	813.3	809.8	804.4	801.1	797.3	792.8	791.9
32.5°	775.4	771.5	767.1	762.7	759.8	757.9	753.4	751.5	747.7	745.2	742.8
35°	688.9	685.5	683.0	681.1	680.1	680.6	679.7	681.6	682.6	682.0	682.6
37.5°	575.6	573.7	574.7	576.2	581.0	587.3	593.1	601.9	607.7	613.6	618.9
40°	449.4	450.9	454.7	463.4	476.1	490.2	503.3	519.8	536.3	547.9	558.7
42.5°	339.1	343.5	353.2	365.8	384.7	405.7	426.1	450.3	470.3	489.7	503.3
45°	255.0	260.9	273.5	291.0	311.9	336.2	362.0	389.1	413.0	432.8	448.0
47.5°	198.8	204.0	216.7	235.2	260.9	286.2	312.9	341.0	365.8	385.3	398.4
50°	156.9	163.7	174.9	194.3	220.1	246.8	274.5	302.1	325.5	342.0	353.7
52.5°	123.4	129.7	140.3	160.9	187.1	213.8	239.4	266.7	287.1	303.1	311.0
55°	95.7	101.6	112.7	129.7	154.5	180.7	206.5	229.8	248.7	260.4	267.7
57.5°	72.9	77.2	85.0	102.0	124.4	148.6	170.5	193.8	208.4	216.7	221.5
60°	55.4	58.7	67.0	80.2	100.6	121.4	139.9	157.4	169.0	175.9	180.7
62.5°	41.8	45.6	51.5	62.7	78.2	95.2	110.8	123.9	133.6	138.0	141.4
65°	28.7	31.6	36.0	44.7	57.8	70.0	82.1	91.8	98.1	103.0	104.9
67.5°	21.4	23.3	25.8	32.5	41.8	51.5	59.7	66.6	73.3	75.3	78.7
70°	16.0	17.5	20.0	24.8	30.2	36.9	43.7	47.6	52.5	55.8	56.8
72.5°	10.2	10.6	13.1	16.0	20.4	24.8	29.1	32.5	35.4	37.4	38.3
75°	5.8	8.7	8.7	11.7	14.6	16.5	19.4	21.9	23.3	24.8	24.8
77.5°	3.9	5.4	5.8	7.3	8.7	11.2	13.6	15.0	16.5	17.0	17.0
80°	3.4	3.9	3.9	5.4	6.3	8.3	9.8	10.2	11.2	11.7	12.7
82.5°	1.5	1.9	2.5	3.9	4.4	4.4	5.8	6.3	7.3	7.7	7.7
85°	0.4	1.0	1.0	1.5	2.5	2.9	3.4	3.9	4.4	4.4	4.8
87.5°	0.4	0.4	0.0	0.4	1.0	1.0	1.9	1.9	1.9	2.9	2.9
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: P245882

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	994.9	994.9	994.9	994.9	994.9	994.9	994.9
2.5°	986.1	986.7	984.7	984.2	983.2	983.8	984.7
5°	968.2	968.7	966.8	964.8	964.8	964.3	964.8
7.5°	951.2	951.7	948.8	947.8	945.9	946.3	946.3
10°	934.2	934.2	929.9	929.3	927.9	927.4	927.4
12.5°	917.7	916.2	912.8	910.9	911.8	908.9	908.9
15°	903.1	900.7	896.4	894.9	892.4	891.4	891.4
17.5°	888.1	886.2	882.2	879.3	876.4	875.9	876.4
20°	873.5	871.6	866.6	864.7	862.3	862.3	861.4
22.5°	858.9	857.0	852.6	851.2	847.7	847.7	848.3
25°	843.9	842.4	837.5	836.6	836.0	834.1	835.1
27.5°	823.5	822.5	818.6	817.1	815.2	814.7	815.6
30°	786.0	784.6	781.7	780.2	776.9	777.3	778.2
32.5°	739.4	737.5	733.6	732.1	729.2	728.2	728.6
35°	681.1	679.7	676.3	676.3	673.3	672.4	673.3
37.5°	621.8	623.3	621.8	623.3	621.8	621.4	621.8
40°	566.0	571.3	572.3	577.7	575.6	578.5	578.1
42.5°	512.5	521.3	524.6	529.0	528.1	530.0	531.5
45°	458.6	465.9	469.3	472.2	472.7	473.6	474.2
47.5°	407.6	413.4	413.9	417.3	416.8	416.8	418.2
50°	360.0	363.9	364.8	367.2	365.3	364.3	364.8
52.5°	315.8	319.7	318.7	319.7	317.2	316.2	316.7
55°	270.6	272.5	272.5	272.5	269.6	269.6	269.6
57.5°	224.4	225.0	224.0	224.4	224.0	221.1	220.6
60°	182.2	182.2	181.7	182.2	180.7	179.2	179.2
62.5°	142.4	143.3	145.3	143.3	142.4	143.3	141.8
65°	106.4	108.3	107.8	108.8	108.3	108.3	107.4
67.5°	80.2	80.6	81.2	81.6	81.6	81.6	81.6
70°	58.7	60.2	59.7	59.7	59.7	59.7	62.7
72.5°	39.3	41.3	40.8	41.8	41.8	42.7	41.8
75°	26.7	28.7	27.7	29.1	28.7	27.7	30.2
77.5°	17.9	18.9	19.4	20.0	19.4	18.9	19.4
80°	12.7	13.6	13.1	13.6	13.6	13.6	14.1
82.5°	7.7	9.2	8.7	9.2	8.7	9.2	9.2
85°	5.4	5.8	4.8	5.8	5.4	5.4	6.3
87.5°	3.4	2.9	2.9	3.4	2.9	3.4	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)