

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: P245012

Luminaire Tested: **LD8B20D010 ER8B209727 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245012  
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 ER8B209727 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1514.0 lumens  
Efficiency: N/A  
Efficacy: 71.1 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

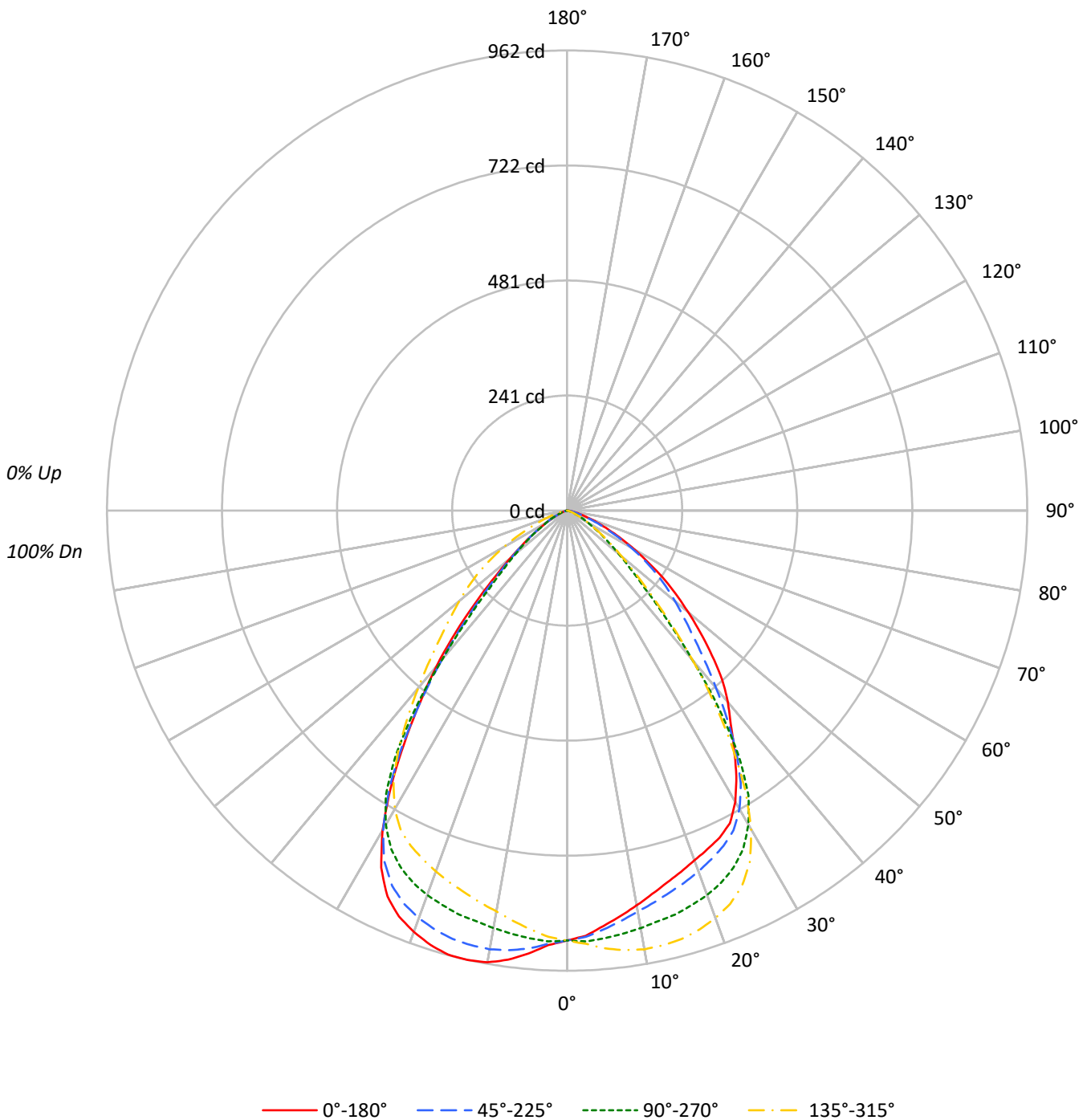
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	85.6	5.7
10°-20°	247.7	16.4
20°-30°	375.1	24.8
30°-40°	376.0	24.8
40°-50°	236.1	15.6
50°-60°	125.8	8.3
60°-70°	51.7	3.4
70°-80°	13.7	0.9
80°-90°	2.3	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°	708.4	46.8
0°-40°	1084.4	71.6
0°-60°	1446.3	95.5
0°-90°	1514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1514.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	899	899	899	899	899	
5°	872	898	930	898	872	82
15°	805	874	961	874	805	228
25°	754	823	890	823	754	346
35°	608	625	593	625	608	381
45°	428	229	265	229	428	329
55°	244	85	90	85	244	217
65°	97	26	24	26	97	101
75°	27	5	4	5	27	31
85°	6	0	0	0	6	6
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°	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8
2.5°	889.6	888.7	888.3	889.2	889.6	891.4	890.9	891.8	891.8	892.2	893.1
5°	871.6	871.2	871.6	871.6	873.4	875.1	874.7	876.0	876.9	879.1	879.9
7.5°	854.9	854.9	854.5	856.2	857.1	859.8	859.3	861.5	862.8	865.0	868.1
10°	837.8	837.8	838.2	839.6	840.0	844.0	844.0	847.0	848.8	851.0	854.9
12.5°	821.1	821.1	823.8	822.9	824.6	827.7	829.0	832.1	834.7	839.1	843.1
15°	805.3	805.3	806.2	808.4	809.7	813.7	815.9	819.4	822.5	826.8	832.6
17.5°	791.7	791.3	791.7	794.4	797.0	800.5	802.3	806.6	809.7	815.4	820.7
20°	778.1	779.0	779.0	781.2	782.9	787.3	789.1	793.9	797.4	802.7	808.9
22.5°	766.3	765.8	765.8	768.9	770.2	774.2	775.9	780.3	784.3	788.7	794.4
25°	754.4	753.5	755.3	755.7	756.6	761.0	762.3	765.4	769.3	773.3	779.0
27.5°	736.9	736.0	736.4	738.2	739.5	743.0	743.9	747.0	750.0	753.5	758.4
30°	703.1	702.2	701.8	704.8	706.2	708.8	710.1	715.4	716.2	720.2	723.7
32.5°	658.3	657.9	658.8	661.4	662.7	666.2	668.0	671.0	673.2	675.4	678.9
35°	608.3	607.4	608.3	610.9	610.9	614.0	615.3	616.6	616.2	616.6	615.7
37.5°	561.8	561.3	561.8	563.1	561.8	563.1	561.8	559.1	554.3	549.0	543.8
40°	522.3	522.7	520.1	521.8	517.0	516.1	511.3	504.7	495.1	484.5	469.6
42.5°	480.1	478.8	477.1	477.9	474.0	470.9	463.0	454.7	442.4	424.8	406.8
45°	428.3	427.9	427.0	426.6	424.0	420.9	414.3	404.6	391.0	373.0	351.5
47.5°	377.9	376.6	376.6	377.0	373.9	373.5	368.2	359.9	348.0	330.5	308.1
50°	329.6	329.2	330.0	331.8	329.6	328.7	325.2	319.5	309.0	294.1	273.0
52.5°	286.1	285.7	286.6	288.8	287.9	288.8	285.3	280.9	273.9	259.4	240.9
55°	243.6	243.6	243.6	246.2	246.2	246.2	244.4	241.8	235.2	224.7	207.6
57.5°	199.3	199.7	202.3	202.8	202.3	203.2	202.8	200.1	195.7	188.3	175.1
60°	161.9	161.9	163.3	164.6	164.1	164.6	164.6	163.3	158.9	152.7	142.2
62.5°	128.1	129.5	128.6	129.5	131.2	129.5	128.6	127.7	124.6	120.7	111.9
65°	97.0	97.9	97.9	98.3	97.4	97.9	96.1	94.8	93.0	88.7	83.0
67.5°	73.7	73.7	73.7	73.7	73.3	72.9	72.4	71.1	68.0	66.3	60.1
70°	56.6	54.0	54.0	54.0	54.0	54.4	53.1	51.4	50.5	47.4	43.0
72.5°	37.7	38.6	37.7	37.7	36.9	37.3	35.6	34.7	33.8	32.0	29.4
75°	27.2	25.0	25.9	26.3	25.0	25.9	24.1	22.4	22.4	21.1	19.7
77.5°	17.6	17.1	17.6	18.0	17.6	17.1	16.2	15.4	15.4	14.9	13.6
80°	12.7	12.3	12.3	12.3	11.9	12.3	11.4	11.4	10.5	10.1	9.2
82.5°	8.3	8.3	7.9	8.3	7.9	8.3	7.0	7.0	7.0	6.6	5.7
85°	5.7	4.8	4.8	5.3	4.4	5.3	4.8	4.4	4.0	4.0	3.5
87.5°	2.6	3.1	2.6	3.1	2.6	2.6	3.1	2.6	2.6	1.8	1.8
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°	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8
2.5°	894.4	894.9	894.9	896.6	897.5	897.9	897.9	901.5	900.1	901.0	901.9
5°	881.7	884.3	885.2	885.2	890.0	891.8	893.5	897.5	897.9	900.6	903.6
7.5°	869.4	872.5	874.2	878.2	881.3	884.3	889.6	892.2	894.9	898.4	902.3
10°	857.6	861.1	864.6	867.7	872.5	876.4	879.9	886.1	889.2	894.0	899.2
12.5°	846.2	851.0	854.1	859.3	864.6	868.1	873.4	879.1	883.9	888.7	894.9
15°	836.1	841.8	845.3	851.0	856.7	861.5	867.2	874.2	877.8	883.5	889.2
17.5°	825.1	831.2	835.6	840.9	847.9	853.2	858.0	865.0	869.4	875.5	882.1
20°	813.7	819.8	825.1	830.3	837.4	842.6	848.3	855.4	860.2	866.3	871.6
22.5°	800.1	805.8	811.5	817.6	824.6	829.0	835.6	841.8	847.0	852.7	858.0
25°	782.5	789.5	793.9	799.6	805.3	810.2	817.2	823.3	827.7	833.0	837.8
27.5°	761.9	767.2	770.7	775.5	781.2	785.6	790.8	797.0	801.4	806.2	809.7
30°	726.8	731.6	734.7	738.2	743.9	747.8	752.2	757.9	761.0	764.5	767.6
32.5°	680.7	684.6	686.4	689.0	693.0	696.9	700.4	705.3	706.6	708.8	708.8
35°	614.0	614.9	614.4	615.3	617.1	619.2	622.3	625.4	627.1	627.1	625.8
37.5°	535.9	530.6	524.9	520.5	519.2	518.3	520.1	521.4	523.1	524.0	521.8
40°	454.7	442.8	430.1	418.7	410.8	407.3	406.0	406.8	406.8	409.9	409.9
42.5°	384.9	366.5	347.6	330.5	319.1	310.3	306.3	306.3	306.8	309.0	310.3
45°	327.0	303.7	281.8	262.9	247.1	235.7	230.4	229.1	228.7	229.5	232.6
47.5°	282.6	258.5	235.7	212.4	195.7	184.3	179.5	177.7	176.0	177.7	178.2
50°	248.0	223.0	198.8	175.6	158.0	147.9	141.8	139.1	138.7	138.7	139.6
52.5°	216.4	193.1	169.0	145.3	126.8	117.2	111.5	110.2	108.4	110.2	110.2
55°	186.5	163.3	139.6	117.2	101.8	91.7	86.5	84.7	83.8	85.1	85.1
57.5°	154.1	134.3	112.4	92.2	76.8	69.8	65.8	63.6	63.2	64.1	63.2
60°	126.4	109.7	90.8	72.4	60.6	53.1	50.0	49.2	48.3	49.2	49.2
62.5°	100.1	86.0	70.6	56.6	46.5	41.3	37.7	37.7	37.3	37.3	37.7
65°	74.2	63.2	52.2	40.4	32.5	28.5	25.9	25.9	25.5	25.9	25.5
67.5°	54.0	46.5	37.7	29.4	23.3	21.1	19.3	18.0	18.9	18.0	17.6
70°	39.5	33.3	27.2	22.4	18.0	15.8	14.5	14.0	13.2	13.2	13.2
72.5°	26.3	22.4	18.4	14.5	11.9	9.6	9.2	8.3	7.5	7.9	8.8
75°	17.6	14.9	13.2	10.5	7.9	7.9	5.3	5.3	4.4	5.3	4.0
77.5°	12.3	10.1	7.9	6.6	5.3	4.8	3.5	3.5	3.1	3.1	3.1
80°	8.8	7.5	5.7	4.8	3.5	3.5	3.1	2.6	2.2	2.2	2.6
82.5°	5.3	4.0	4.0	3.5	2.2	1.8	1.3	1.8	0.9	0.9	0.9
85°	3.1	2.6	2.2	1.3	0.9	0.9	0.4	0.0	0.4	0.4	0.0
87.5°	1.8	0.9	0.9	0.4	0.0	0.4	0.4	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°	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8
2.5°	904.1	903.6	904.5	904.5	907.2	906.7	908.0	908.0	907.2	907.6	909.3
5°	907.2	908.5	911.1	913.3	917.2	919.0	921.2	923.4	923.8	925.2	926.5
7.5°	907.2	911.5	914.6	918.6	923.8	926.9	931.7	935.7	937.4	939.6	942.3
10°	905.4	909.8	915.5	919.9	926.5	931.3	936.1	942.3	944.9	948.4	951.9
12.5°	901.9	906.7	912.8	918.6	926.0	930.4	936.6	942.3	946.2	951.0	955.0
15°	896.6	902.3	908.0	913.7	921.6	926.9	932.6	939.2	943.1	948.4	951.9
17.5°	888.3	894.4	899.7	905.0	912.4	918.6	923.8	930.0	933.9	938.3	943.1
20°	878.2	883.9	889.6	894.0	901.5	906.7	912.4	918.1	921.2	922.1	929.5
22.5°	865.5	869.4	873.8	880.8	885.2	890.0	895.3	900.6	903.6	908.5	911.1
25°	844.4	848.3	853.2	856.2	861.5	865.5	870.7	876.4	878.2	881.7	884.3
27.5°	815.0	817.2	819.4	822.0	825.1	827.3	830.3	833.0	834.7	836.5	838.2
30°	768.5	768.5	768.5	766.7	768.0	769.3	769.8	769.3	769.3	768.9	768.9
32.5°	707.0	703.5	699.6	696.1	694.7	693.0	692.1	690.8	688.6	687.3	687.7
35°	624.1	616.2	611.4	607.0	603.5	600.8	599.5	598.2	597.8	596.0	594.2
37.5°	520.5	514.8	511.3	508.7	505.6	502.9	503.4	503.8	505.1	504.3	504.7
40°	410.8	409.5	410.8	407.7	406.8	407.7	409.9	413.0	414.7	416.5	419.6
42.5°	312.5	314.7	317.8	317.8	319.1	320.8	323.4	328.3	330.9	334.0	337.5
45°	235.2	237.9	241.8	243.1	244.0	246.2	249.3	253.2	255.0	257.6	260.7
47.5°	181.3	183.0	185.2	187.4	189.6	190.5	193.5	193.5	195.7	197.5	198.4
50°	141.3	143.1	144.8	146.1	147.0	148.3	149.2	150.5	151.0	151.8	152.3
52.5°	110.6	112.8	112.8	113.7	115.0	116.3	115.9	116.3	116.7	116.7	118.1
55°	86.5	86.5	87.8	87.8	88.7	88.2	88.7	88.7	88.7	88.7	89.1
57.5°	64.5	65.0	66.3	65.4	65.0	65.8	65.0	65.8	65.4	66.3	65.0
60°	49.6	49.6	50.0	50.0	50.5	50.5	50.5	50.0	50.0	49.6	49.6
62.5°	37.3	37.7	38.2	37.7	37.7	37.7	37.3	37.3	36.9	36.4	36.4
65°	25.0	24.6	25.5	24.6	25.0	25.0	24.6	25.0	23.7	24.1	23.7
67.5°	18.0	17.6	17.1	17.6	17.1	16.7	16.7	17.1	17.6	16.2	16.2
70°	11.9	12.3	11.9	12.3	12.7	12.7	12.3	11.9	12.3	11.4	11.9
72.5°	7.5	7.5	7.5	7.5	7.5	7.9	7.9	7.9	7.0	7.0	6.6
75°	3.5	4.8	4.0	3.5	4.8	4.8	4.4	4.4	4.0	4.0	4.0
77.5°	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.2	2.6	2.2
80°	1.8	1.8	1.8	1.3	1.8	1.8	2.2	1.8	1.8	1.3	2.2
82.5°	0.9	0.9	0.9	0.0	0.4	0.9	0.9	0.4	0.9	0.9	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°	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8
2.5°	908.9	908.5	908.9	909.3	908.9	908.5	908.9	909.3	907.6	907.2	908.0
5°	928.2	928.2	929.1	929.5	929.1	928.2	928.2	926.5	925.2	923.8	923.4
7.5°	944.9	945.8	946.6	947.1	946.6	945.8	944.9	942.3	939.6	937.4	935.7
10°	955.0	956.3	958.1	958.9	958.1	956.3	955.0	951.9	948.4	944.9	942.3
12.5°	959.4	960.7	962.9	962.5	962.9	960.7	959.4	955.0	951.0	946.2	942.3
15°	956.3	958.1	960.3	961.1	960.3	958.1	956.3	951.9	948.4	943.1	939.2
17.5°	946.6	949.3	950.6	951.9	950.6	949.3	946.6	943.1	938.3	933.9	930.0
20°	933.5	935.2	937.0	937.4	937.0	935.2	933.5	929.5	922.1	921.2	918.1
22.5°	914.6	915.9	919.9	918.6	919.9	915.9	914.6	911.1	908.5	903.6	900.6
25°	887.4	888.7	889.2	889.6	889.2	888.7	887.4	884.3	881.7	878.2	876.4
27.5°	840.4	840.4	841.3	841.8	841.3	840.4	840.4	838.2	836.5	834.7	833.0
30°	769.3	769.3	769.3	771.5	769.3	769.3	769.3	768.9	768.9	769.3	769.3
32.5°	687.3	686.4	685.5	686.4	685.5	686.4	687.3	687.7	687.3	688.6	690.8
35°	594.2	593.8	595.1	593.4	595.1	593.8	594.2	594.2	596.0	597.8	598.2
37.5°	505.1	504.3	506.0	504.3	506.0	504.3	505.1	504.7	504.3	505.1	503.8
40°	420.4	421.3	421.3	424.8	421.3	421.3	420.4	419.6	416.5	414.7	413.0
42.5°	339.3	341.9	341.0	343.6	341.0	341.9	339.3	337.5	334.0	330.9	328.3
45°	262.4	264.2	264.2	265.1	264.2	264.2	262.4	260.7	257.6	255.0	253.2
47.5°	201.4	201.4	201.4	201.9	201.4	201.4	201.4	198.4	197.5	195.7	193.5
50°	153.2	153.6	154.1	154.5	154.1	153.6	153.2	152.3	151.8	151.0	150.5
52.5°	117.6	118.1	117.2	118.1	117.2	118.1	117.6	118.1	116.7	116.7	116.3
55°	89.1	88.7	89.1	89.5	89.1	88.7	89.1	89.1	88.7	88.7	88.7
57.5°	65.4	64.5	64.5	64.5	64.5	64.5	65.4	65.0	66.3	65.4	65.8
60°	48.7	49.2	49.2	49.6	49.2	49.2	48.7	49.6	49.6	50.0	50.0
62.5°	36.0	37.3	36.4	37.3	36.4	37.3	36.0	36.4	36.4	36.9	37.3
65°	23.3	23.3	23.3	23.7	23.3	23.3	23.3	23.7	24.1	23.7	25.0
67.5°	15.8	16.2	17.1	16.7	17.1	16.2	15.8	16.2	16.2	17.6	17.1
70°	12.7	11.4	11.4	12.7	11.4	11.4	12.7	11.9	11.4	12.3	11.9
72.5°	7.5	6.6	7.5	7.5	7.5	6.6	7.5	6.6	7.0	7.0	7.9
75°	4.0	3.5	3.1	4.4	3.1	3.5	4.0	4.0	4.0	4.0	4.4
77.5°	2.6	2.2	3.1	3.1	3.1	2.2	2.6	2.2	2.6	2.2	2.6
80°	1.3	1.8	1.3	2.2	1.3	1.8	1.3	2.2	1.3	1.8	1.8
82.5°	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.9	0.9	0.4
85°	0.0	0.9	0.4	0.4	0.4	0.9	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°	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8
2.5°	908.0	906.7	907.2	904.5	904.5	903.6	904.1	901.9	901.0	900.1	901.5
5°	921.2	919.0	917.2	913.3	911.1	908.5	907.2	903.6	900.6	897.9	897.5
7.5°	931.7	926.9	923.8	918.6	914.6	911.5	907.2	902.3	898.4	894.9	892.2
10°	936.1	931.3	926.5	919.9	915.5	909.8	905.4	899.2	894.0	889.2	886.1
12.5°	936.6	930.4	926.0	918.6	912.8	906.7	901.9	894.9	888.7	883.9	879.1
15°	932.6	926.9	921.6	913.7	908.0	902.3	896.6	889.2	883.5	877.8	874.2
17.5°	923.8	918.6	912.4	905.0	899.7	894.4	888.3	882.1	875.5	869.4	865.0
20°	912.4	906.7	901.5	894.0	889.6	883.9	878.2	871.6	866.3	860.2	855.4
22.5°	895.3	890.0	885.2	880.8	873.8	869.4	865.5	858.0	852.7	847.0	841.8
25°	870.7	865.5	861.5	856.2	853.2	848.3	844.4	837.8	833.0	827.7	823.3
27.5°	830.3	827.3	825.1	822.0	819.4	817.2	815.0	809.7	806.2	801.4	797.0
30°	769.8	769.3	768.0	766.7	768.5	768.5	768.5	767.6	764.5	761.0	757.9
32.5°	692.1	693.0	694.7	696.1	699.6	703.5	707.0	708.8	708.8	706.6	705.3
35°	599.5	600.8	603.5	607.0	611.4	616.2	624.1	625.8	627.1	627.1	625.4
37.5°	503.4	502.9	505.6	508.7	511.3	514.8	520.5	521.8	524.0	523.1	521.4
40°	409.9	407.7	406.8	407.7	410.8	409.5	410.8	409.9	409.9	406.8	406.8
42.5°	323.4	320.8	319.1	317.8	317.8	314.7	312.5	310.3	309.0	306.8	306.3
45°	249.3	246.2	244.0	243.1	241.8	237.9	235.2	232.6	229.5	228.7	229.1
47.5°	193.5	190.5	189.6	187.4	185.2	183.0	181.3	178.2	177.7	176.0	177.7
50°	149.2	148.3	147.0	146.1	144.8	143.1	141.3	139.6	138.7	138.7	139.1
52.5°	115.9	116.3	115.0	113.7	112.8	112.8	110.6	110.2	110.2	108.4	110.2
55°	88.7	88.2	88.7	87.8	87.8	86.5	86.5	85.1	85.1	83.8	84.7
57.5°	65.0	65.8	65.0	65.4	66.3	65.0	64.5	63.2	64.1	63.2	63.6
60°	50.5	50.5	50.5	50.0	50.0	49.6	49.6	49.2	49.2	48.3	49.2
62.5°	37.3	37.7	37.7	37.7	38.2	37.7	37.3	37.7	37.3	37.3	37.7
65°	24.6	25.0	25.0	24.6	25.5	24.6	25.0	25.5	25.9	25.5	25.9
67.5°	16.7	16.7	17.1	17.6	17.1	17.6	18.0	17.6	18.0	18.9	18.0
70°	12.3	12.7	12.7	12.3	11.9	12.3	11.9	13.2	13.2	13.2	14.0
72.5°	7.9	7.9	7.5	7.5	7.5	7.5	7.5	8.8	7.9	7.5	8.3
75°	4.4	4.8	4.8	3.5	4.0	4.8	3.5	4.0	5.3	4.4	5.3
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.5	3.1	3.1	3.1	3.5
80°	2.2	1.8	1.8	1.3	1.8	1.8	1.8	2.6	2.2	2.2	2.6
82.5°	0.9	0.9	0.4	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.8
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	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°	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8	898.8
2.5°	897.9	897.9	897.5	896.6	894.9	894.9	894.4	893.1	892.2	891.8	891.8
5°	893.5	891.8	890.0	885.2	885.2	884.3	881.7	879.9	879.1	876.9	876.0
7.5°	889.6	884.3	881.3	878.2	874.2	872.5	869.4	868.1	865.0	862.8	861.5
10°	879.9	876.4	872.5	867.7	864.6	861.1	857.6	854.9	851.0	848.8	847.0
12.5°	873.4	868.1	864.6	859.3	854.1	851.0	846.2	843.1	839.1	834.7	832.1
15°	867.2	861.5	856.7	851.0	845.3	841.8	836.1	832.6	826.8	822.5	819.4
17.5°	858.0	853.2	847.9	840.9	835.6	831.2	825.1	820.7	815.4	809.7	806.6
20°	848.3	842.6	837.4	830.3	825.1	819.8	813.7	808.9	802.7	797.4	793.9
22.5°	835.6	829.0	824.6	817.6	811.5	805.8	800.1	794.4	788.7	784.3	780.3
25°	817.2	810.2	805.3	799.6	793.9	789.5	782.5	779.0	773.3	769.3	765.4
27.5°	790.8	785.6	781.2	775.5	770.7	767.2	761.9	758.4	753.5	750.0	747.0
30°	752.2	747.8	743.9	738.2	734.7	731.6	726.8	723.7	720.2	716.2	715.4
32.5°	700.4	696.9	693.0	689.0	686.4	684.6	680.7	678.9	675.4	673.2	671.0
35°	622.3	619.2	617.1	615.3	614.4	614.9	614.0	615.7	616.6	616.2	616.6
37.5°	520.1	518.3	519.2	520.5	524.9	530.6	535.9	543.8	549.0	554.3	559.1
40°	406.0	407.3	410.8	418.7	430.1	442.8	454.7	469.6	484.5	495.1	504.7
42.5°	306.3	310.3	319.1	330.5	347.6	366.5	384.9	406.8	424.8	442.4	454.7
45°	230.4	235.7	247.1	262.9	281.8	303.7	327.0	351.5	373.0	391.0	404.6
47.5°	179.5	184.3	195.7	212.4	235.7	258.5	282.6	308.1	330.5	348.0	359.9
50°	141.8	147.9	158.0	175.6	198.8	223.0	248.0	273.0	294.1	309.0	319.5
52.5°	111.5	117.2	126.8	145.3	169.0	193.1	216.4	240.9	259.4	273.9	280.9
55°	86.5	91.7	101.8	117.2	139.6	163.3	186.5	207.6	224.7	235.2	241.8
57.5°	65.8	69.8	76.8	92.2	112.4	134.3	154.1	175.1	188.3	195.7	200.1
60°	50.0	53.1	60.6	72.4	90.8	109.7	126.4	142.2	152.7	158.9	163.3
62.5°	37.7	41.3	46.5	56.6	70.6	86.0	100.1	111.9	120.7	124.6	127.7
65°	25.9	28.5	32.5	40.4	52.2	63.2	74.2	83.0	88.7	93.0	94.8
67.5°	19.3	21.1	23.3	29.4	37.7	46.5	54.0	60.1	66.3	68.0	71.1
70°	14.5	15.8	18.0	22.4	27.2	33.3	39.5	43.0	47.4	50.5	51.4
72.5°	9.2	9.6	11.9	14.5	18.4	22.4	26.3	29.4	32.0	33.8	34.7
75°	5.3	7.9	7.9	10.5	13.2	14.9	17.6	19.7	21.1	22.4	22.4
77.5°	3.5	4.8	5.3	6.6	7.9	10.1	12.3	13.6	14.9	15.4	15.4
80°	3.1	3.5	3.5	4.8	5.7	7.5	8.8	9.2	10.1	10.5	11.4
82.5°	1.3	1.8	2.2	3.5	4.0	4.0	5.3	5.7	6.6	7.0	7.0
85°	0.4	0.9	0.9	1.3	2.2	2.6	3.1	3.5	4.0	4.0	4.4
87.5°	0.4	0.4	0.0	0.4	0.9	0.9	1.8	1.8	1.8	2.6	2.6
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: P245012

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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	898.8	898.8	898.8	898.8	898.8	898.8	898.8
2.5°	890.9	891.4	889.6	889.2	888.3	888.7	889.6
5°	874.7	875.1	873.4	871.6	871.6	871.2	871.6
7.5°	859.3	859.8	857.1	856.2	854.5	854.9	854.9
10°	844.0	844.0	840.0	839.6	838.2	837.8	837.8
12.5°	829.0	827.7	824.6	822.9	823.8	821.1	821.1
15°	815.9	813.7	809.7	808.4	806.2	805.3	805.3
17.5°	802.3	800.5	797.0	794.4	791.7	791.3	791.7
20°	789.1	787.3	782.9	781.2	779.0	779.0	778.1
22.5°	775.9	774.2	770.2	768.9	765.8	765.8	766.3
25°	762.3	761.0	756.6	755.7	755.3	753.5	754.4
27.5°	743.9	743.0	739.5	738.2	736.4	736.0	736.9
30°	710.1	708.8	706.2	704.8	701.8	702.2	703.1
32.5°	668.0	666.2	662.7	661.4	658.8	657.9	658.3
35°	615.3	614.0	610.9	610.9	608.3	607.4	608.3
37.5°	561.8	563.1	561.8	563.1	561.8	561.3	561.8
40°	511.3	516.1	517.0	521.8	520.1	522.7	522.3
42.5°	463.0	470.9	474.0	477.9	477.1	478.8	480.1
45°	414.3	420.9	424.0	426.6	427.0	427.9	428.3
47.5°	368.2	373.5	373.9	377.0	376.6	376.6	377.9
50°	325.2	328.7	329.6	331.8	330.0	329.2	329.6
52.5°	285.3	288.8	287.9	288.8	286.6	285.7	286.1
55°	244.4	246.2	246.2	246.2	243.6	243.6	243.6
57.5°	202.8	203.2	202.3	202.8	202.3	199.7	199.3
60°	164.6	164.6	164.1	164.6	163.3	161.9	161.9
62.5°	128.6	129.5	131.2	129.5	128.6	129.5	128.1
65°	96.1	97.9	97.4	98.3	97.9	97.9	97.0
67.5°	72.4	72.9	73.3	73.7	73.7	73.7	73.7
70°	53.1	54.4	54.0	54.0	54.0	54.0	56.6
72.5°	35.6	37.3	36.9	37.7	37.7	38.6	37.7
75°	24.1	25.9	25.0	26.3	25.9	25.0	27.2
77.5°	16.2	17.1	17.6	18.0	17.6	17.1	17.6
80°	11.4	12.3	11.9	12.3	12.3	12.3	12.7
82.5°	7.0	8.3	7.9	8.3	7.9	8.3	8.3
85°	4.8	5.3	4.4	5.3	4.8	4.8	5.7
87.5°	3.1	2.6	2.6	3.1	2.6	3.1	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)