

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: P246020

Luminaire Tested: **LSR8B20D010 EC8B209727 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246020
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 EC8B209727 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1511.0 lumens
Efficiency: N/A
Efficacy: 70.9 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

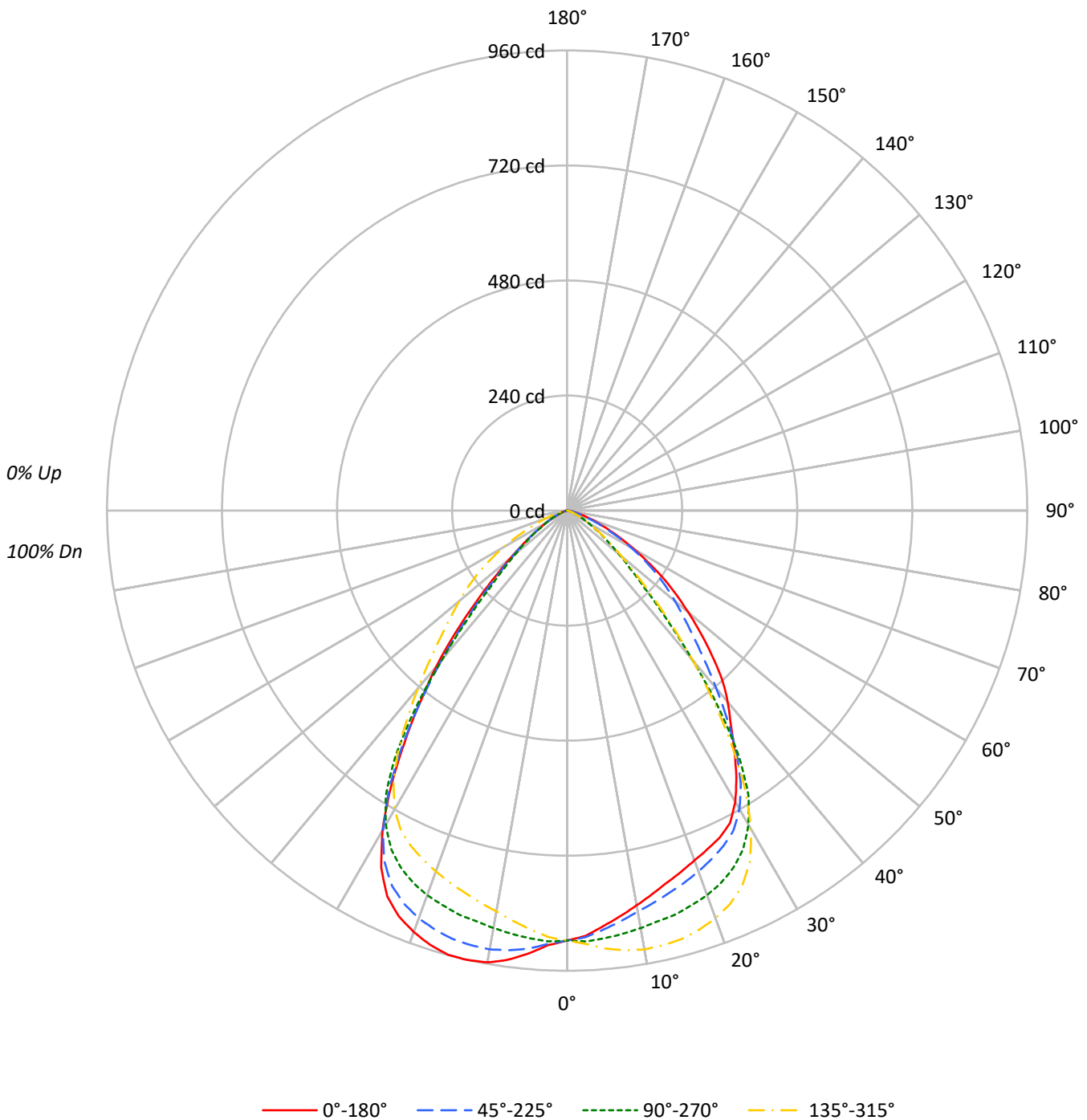
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	85.4	5.7
10°-20°	247.2	16.4
20°-30°	374.4	24.8
30°-40°	375.2	24.8
40°-50°	235.6	15.6
50°-60°	125.6	8.3
60°-70°	51.6	3.4
70°-80°	13.6	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°	707.0	46.8
0°-40°	1082.2	71.6
0°-60°	1443.4	95.5
0°-90°	1511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1511.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	897	897	897	897	897	
5°	870	896	928	896	870	82
15°	804	872	959	872	804	227
25°	753	822	888	822	753	345
35°	607	624	592	624	607	380
45°	428	229	265	229	428	329
55°	243	84	89	84	243	217
65°	97	26	24	26	97	100
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°	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0
2.5°	887.8	887.0	886.5	887.4	887.8	889.6	889.2	890.0	890.0	890.5	891.3
5°	869.9	869.4	869.9	869.9	871.6	873.4	872.9	874.3	875.1	877.3	878.2
7.5°	853.2	853.2	852.8	854.5	855.4	858.1	857.6	859.8	861.1	863.3	866.4
10°	836.2	836.2	836.6	837.9	838.3	842.3	842.3	845.3	847.1	849.3	853.2
12.5°	819.5	819.5	822.1	821.3	823.0	826.1	827.4	830.5	833.1	837.5	841.4
15°	803.7	803.7	804.6	806.8	808.1	812.1	814.2	817.8	820.8	825.2	830.9
17.5°	790.2	789.7	790.2	792.8	795.4	798.9	800.7	805.1	808.1	813.8	819.1
20°	776.6	777.5	777.5	779.6	781.4	785.8	787.5	792.4	795.9	801.1	807.3
22.5°	764.8	764.3	764.3	767.4	768.7	772.6	774.4	778.8	782.7	787.1	792.8
25°	752.9	752.0	753.8	754.2	755.1	759.5	760.8	763.9	767.8	771.8	777.5
27.5°	735.4	734.5	735.0	736.7	738.0	741.5	742.4	745.5	748.5	752.0	756.9
30°	701.7	700.8	700.4	703.4	704.8	707.4	708.7	714.0	714.8	718.8	722.3
32.5°	657.0	656.6	657.5	660.1	661.4	664.9	666.6	669.7	671.9	674.1	677.6
35°	607.1	606.2	607.1	609.7	609.7	612.8	614.1	615.4	615.0	615.4	614.5
37.5°	560.7	560.2	560.7	562.0	560.7	562.0	560.7	558.0	553.2	547.9	542.7
40°	521.2	521.7	519.0	520.8	516.0	515.1	510.3	503.7	494.1	483.6	468.7
42.5°	479.2	477.9	476.1	477.0	473.1	470.0	462.1	453.8	441.5	424.0	406.0
45°	427.5	427.1	426.2	425.7	423.1	420.0	413.5	403.8	390.3	372.3	350.8
47.5°	377.1	375.8	375.8	376.2	373.2	372.7	367.5	359.2	347.3	329.8	307.5
50°	328.9	328.5	329.4	331.1	328.9	328.1	324.6	318.9	308.4	293.5	272.4
52.5°	285.6	285.1	286.0	288.2	287.3	288.2	284.7	280.3	273.3	258.9	240.5
55°	243.1	243.1	243.1	245.7	245.7	245.7	244.0	241.3	234.8	224.3	207.2
57.5°	198.9	199.3	201.9	202.4	201.9	202.8	202.4	199.7	195.4	187.9	174.8
60°	161.6	161.6	162.9	164.3	163.8	164.3	164.3	162.9	158.6	152.4	141.9
62.5°	127.9	129.2	128.3	129.2	131.0	129.2	128.3	127.5	124.4	120.4	111.7
65°	96.8	97.7	97.7	98.1	97.2	97.7	95.9	94.6	92.9	88.5	82.8
67.5°	73.6	73.6	73.6	73.6	73.1	72.7	72.3	71.0	67.9	66.1	60.0
70°	56.5	53.9	53.9	53.9	53.9	54.3	53.0	51.3	50.4	47.3	42.9
72.5°	37.7	38.5	37.7	37.7	36.8	37.2	35.5	34.6	33.7	32.0	29.4
75°	27.2	25.0	25.8	26.3	25.0	25.8	24.1	22.3	22.3	21.0	19.7
77.5°	17.5	17.1	17.5	18.0	17.5	17.1	16.2	15.3	15.3	14.9	13.6
80°	12.7	12.3	12.3	12.3	11.8	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	3.9	3.9	3.5
87.5°	2.6	3.1	2.6	3.1	2.6	2.6	3.1	2.6	2.6	1.7	1.7
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°	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0
2.5°	892.7	893.1	893.1	894.9	895.7	896.1	896.1	899.7	898.3	899.2	900.1
5°	880.0	882.6	883.5	883.5	888.3	890.0	891.8	895.7	896.1	898.8	901.8
7.5°	867.7	870.7	872.5	876.4	879.5	882.6	887.8	890.5	893.1	896.6	900.5
10°	855.9	859.4	862.9	865.9	870.7	874.7	878.2	884.3	887.4	892.2	897.5
12.5°	844.5	849.3	852.4	857.6	862.9	866.4	871.6	877.3	882.1	887.0	893.1
15°	834.4	840.1	843.6	849.3	855.0	859.8	865.5	872.5	876.0	881.7	887.4
17.5°	823.4	829.6	834.0	839.2	846.2	851.5	856.3	863.3	867.7	873.8	880.4
20°	812.1	818.2	823.4	828.7	835.7	841.0	846.7	853.7	858.5	864.6	869.9
22.5°	798.5	804.2	809.9	816.0	823.0	827.4	834.0	840.1	845.3	851.0	856.3
25°	781.0	788.0	792.4	798.0	803.7	808.5	815.6	821.7	826.1	831.3	836.2
27.5°	760.4	765.6	769.1	774.0	779.6	784.0	789.3	795.4	799.8	804.6	808.1
30°	725.3	730.2	733.2	736.7	742.4	746.4	750.7	756.4	759.5	763.0	766.1
32.5°	679.3	683.3	685.0	687.7	691.6	695.5	699.1	703.9	705.2	707.4	707.4
35°	612.8	613.6	613.2	614.1	615.8	618.0	621.1	624.2	625.9	625.9	624.6
37.5°	534.8	529.6	523.9	519.5	518.2	517.3	519.0	520.3	522.1	523.0	520.8
40°	453.8	442.0	429.2	417.8	410.0	406.5	405.2	406.0	406.0	409.1	409.1
42.5°	384.1	365.7	346.9	329.8	318.4	309.7	305.7	305.7	306.2	308.4	309.7
45°	326.3	303.1	281.2	262.4	246.6	235.2	230.0	228.6	228.2	229.1	232.1
47.5°	282.1	258.0	235.2	212.0	195.4	184.0	179.2	177.4	175.6	177.4	177.8
50°	247.5	222.5	198.4	175.2	157.7	147.6	141.5	138.8	138.4	138.4	139.3
52.5°	215.9	192.7	168.6	145.0	126.6	117.0	111.3	109.9	108.2	109.9	109.9
55°	186.1	162.9	139.3	117.0	101.6	91.5	86.3	84.5	83.7	85.0	85.0
57.5°	153.7	134.0	112.1	92.0	76.7	69.6	65.7	63.5	63.1	63.9	63.1
60°	126.1	109.5	90.7	72.3	60.5	53.0	49.9	49.1	48.2	49.1	49.1
62.5°	99.9	85.9	70.5	56.5	46.4	41.2	37.7	37.7	37.2	37.2	37.7
65°	74.0	63.1	52.1	40.3	32.4	28.5	25.8	25.8	25.4	25.8	25.4
67.5°	53.9	46.4	37.7	29.4	23.2	21.0	19.3	18.0	18.8	18.0	17.5
70°	39.4	33.3	27.2	22.3	18.0	15.8	14.5	14.0	13.1	13.1	13.1
72.5°	26.3	22.3	18.4	14.5	11.8	9.6	9.2	8.3	7.4	7.9	8.8
75°	17.5	14.9	13.1	10.5	7.9	7.9	5.3	5.3	4.4	5.3	3.9
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	7.4	5.7	4.8	3.5	3.5	3.1	2.6	2.2	2.2	2.6
82.5°	5.3	3.9	3.9	3.5	2.2	1.7	1.3	1.7	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°	1.7	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°	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0
2.5°	902.3	901.8	902.7	902.7	905.4	904.9	906.2	906.2	905.4	905.8	907.5
5°	905.4	906.7	909.3	911.5	915.4	917.2	919.4	921.6	922.0	923.3	924.6
7.5°	905.4	909.7	912.8	916.7	922.0	925.1	929.9	933.8	935.6	937.8	940.4
10°	903.6	908.0	913.7	918.1	924.6	929.4	934.3	940.4	943.0	946.5	950.0
12.5°	900.1	904.9	911.0	916.7	924.2	928.6	934.7	940.4	944.3	949.2	953.1
15°	894.9	900.5	906.2	911.9	919.8	925.1	930.8	937.3	941.3	946.5	950.0
17.5°	886.5	892.7	897.9	903.2	910.6	916.7	922.0	928.1	932.1	936.5	941.3
20°	876.4	882.1	887.8	892.2	899.7	904.9	910.6	916.3	919.4	920.3	927.7
22.5°	863.8	867.7	872.1	879.1	883.5	888.3	893.5	898.8	901.8	906.7	909.3
25°	842.7	846.7	851.5	854.5	859.8	863.8	869.0	874.7	876.4	880.0	882.6
27.5°	813.4	815.6	817.8	820.4	823.4	825.6	828.7	831.3	833.1	834.8	836.6
30°	766.9	766.9	766.9	765.2	766.5	767.8	768.3	767.8	767.8	767.4	767.4
32.5°	705.6	702.1	698.2	694.7	693.4	691.6	690.7	689.4	687.2	685.9	686.4
35°	622.8	615.0	610.1	605.8	602.3	599.6	598.3	597.0	596.6	594.8	593.1
37.5°	519.5	513.8	510.3	507.7	504.6	502.0	502.4	502.8	504.1	503.3	503.7
40°	410.0	408.7	410.0	406.9	406.0	406.9	409.1	412.2	413.9	415.7	418.7
42.5°	311.9	314.0	317.1	317.1	318.4	320.2	322.8	327.6	330.2	333.3	336.8
45°	234.8	237.4	241.3	242.6	243.5	245.7	248.8	252.7	254.5	257.1	260.2
47.5°	180.9	182.6	184.8	187.0	189.2	190.1	193.2	193.2	195.4	197.1	198.0
50°	141.0	142.8	144.5	145.9	146.7	148.1	148.9	150.2	150.7	151.5	152.0
52.5°	110.4	112.6	112.6	113.4	114.8	116.1	115.6	116.1	116.5	116.5	117.8
55°	86.3	86.3	87.6	87.6	88.5	88.0	88.5	88.5	88.5	88.5	88.9
57.5°	64.4	64.8	66.1	65.3	64.8	65.7	64.8	65.7	65.3	66.1	64.8
60°	49.5	49.5	49.9	49.9	50.4	50.4	50.4	49.9	49.9	49.5	49.5
62.5°	37.2	37.7	38.1	37.7	37.7	37.7	37.2	37.2	36.8	36.3	36.3
65°	25.0	24.5	25.4	24.5	25.0	25.0	24.5	25.0	23.7	24.1	23.7
67.5°	18.0	17.5	17.1	17.5	17.1	16.6	16.6	17.1	17.5	16.2	16.2
70°	11.8	12.3	11.8	12.3	12.7	12.7	12.3	11.8	12.3	11.4	11.8
72.5°	7.4	7.4	7.4	7.4	7.4	7.9	7.9	7.9	7.0	7.0	6.6
75°	3.5	4.8	3.9	3.5	4.8	4.8	4.4	4.4	3.9	3.9	3.9
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°	1.7	1.7	1.7	1.3	1.7	1.7	2.2	1.7	1.7	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°	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0
2.5°	907.1	906.7	907.1	907.5	907.1	906.7	907.1	907.5	905.8	905.4	906.2
5°	926.4	926.4	927.2	927.7	927.2	926.4	926.4	924.6	923.3	922.0	921.6
7.5°	943.0	943.9	944.8	945.2	944.8	943.9	943.0	940.4	937.8	935.6	933.8
10°	953.1	954.4	956.2	957.0	956.2	954.4	953.1	950.0	946.5	943.0	940.4
12.5°	957.5	958.8	961.0	960.5	961.0	958.8	957.5	953.1	949.2	944.3	940.4
15°	954.4	956.2	958.3	959.2	958.3	956.2	954.4	950.0	946.5	941.3	937.3
17.5°	944.8	947.4	948.7	950.0	948.7	947.4	944.8	941.3	936.5	932.1	928.1
20°	931.6	933.4	935.1	935.6	935.1	933.4	931.6	927.7	920.3	919.4	916.3
22.5°	912.8	914.1	918.1	916.7	918.1	914.1	912.8	909.3	906.7	901.8	898.8
25°	885.6	887.0	887.4	887.8	887.4	887.0	885.6	882.6	880.0	876.4	874.7
27.5°	838.8	838.8	839.6	840.1	839.6	838.8	838.8	836.6	834.8	833.1	831.3
30°	767.8	767.8	767.8	770.0	767.8	767.8	767.8	767.4	767.4	767.8	767.8
32.5°	685.9	685.0	684.2	685.0	684.2	685.0	685.9	686.4	685.9	687.2	689.4
35°	593.1	592.6	593.9	592.2	593.9	592.6	593.1	593.1	594.8	596.6	597.0
37.5°	504.1	503.3	505.0	503.3	505.0	503.3	504.1	503.7	503.3	504.1	502.8
40°	419.6	420.5	420.5	424.0	420.5	420.5	419.6	418.7	415.7	413.9	412.2
42.5°	338.6	341.2	340.3	343.0	340.3	341.2	338.6	336.8	333.3	330.2	327.6
45°	261.9	263.7	263.7	264.6	263.7	263.7	261.9	260.2	257.1	254.5	252.7
47.5°	201.0	201.0	201.0	201.5	201.0	201.0	201.0	198.0	197.1	195.4	193.2
50°	152.9	153.3	153.7	154.2	153.7	153.3	152.9	152.0	151.5	150.7	150.2
52.5°	117.4	117.8	117.0	117.8	117.0	117.8	117.4	117.8	116.5	116.5	116.1
55°	88.9	88.5	88.9	89.3	88.9	88.5	88.9	88.9	88.5	88.5	88.5
57.5°	65.3	64.4	64.4	64.4	64.4	64.4	65.3	64.8	66.1	65.3	65.7
60°	48.6	49.1	49.1	49.5	49.1	49.1	48.6	49.5	49.5	49.9	49.9
62.5°	35.9	37.2	36.3	37.2	36.3	37.2	35.9	36.3	36.3	36.8	37.2
65°	23.2	23.2	23.2	23.7	23.2	23.2	23.2	23.7	24.1	23.7	25.0
67.5°	15.8	16.2	17.1	16.6	17.1	16.2	15.8	16.2	16.2	17.5	17.1
70°	12.7	11.4	11.4	12.7	11.4	11.4	12.7	11.8	11.4	12.3	11.8
72.5°	7.4	6.6	7.4	7.4	7.4	6.6	7.4	6.6	7.0	7.0	7.9
75°	3.9	3.5	3.1	4.4	3.1	3.5	3.9	3.9	3.9	3.9	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	1.7	1.3	2.2	1.3	1.7	1.3	2.2	1.3	1.7	1.7
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°	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0
2.5°	906.2	904.9	905.4	902.7	902.7	901.8	902.3	900.1	899.2	898.3	899.7
5°	919.4	917.2	915.4	911.5	909.3	906.7	905.4	901.8	898.8	896.1	895.7
7.5°	929.9	925.1	922.0	916.7	912.8	909.7	905.4	900.5	896.6	893.1	890.5
10°	934.3	929.4	924.6	918.1	913.7	908.0	903.6	897.5	892.2	887.4	884.3
12.5°	934.7	928.6	924.2	916.7	911.0	904.9	900.1	893.1	887.0	882.1	877.3
15°	930.8	925.1	919.8	911.9	906.2	900.5	894.9	887.4	881.7	876.0	872.5
17.5°	922.0	916.7	910.6	903.2	897.9	892.7	886.5	880.4	873.8	867.7	863.3
20°	910.6	904.9	899.7	892.2	887.8	882.1	876.4	869.9	864.6	858.5	853.7
22.5°	893.5	888.3	883.5	879.1	872.1	867.7	863.8	856.3	851.0	845.3	840.1
25°	869.0	863.8	859.8	854.5	851.5	846.7	842.7	836.2	831.3	826.1	821.7
27.5°	828.7	825.6	823.4	820.4	817.8	815.6	813.4	808.1	804.6	799.8	795.4
30°	768.3	767.8	766.5	765.2	766.9	766.9	766.9	766.1	763.0	759.5	756.4
32.5°	690.7	691.6	693.4	694.7	698.2	702.1	705.6	707.4	707.4	705.2	703.9
35°	598.3	599.6	602.3	605.8	610.1	615.0	622.8	624.6	625.9	625.9	624.2
37.5°	502.4	502.0	504.6	507.7	510.3	513.8	519.5	520.8	523.0	522.1	520.3
40°	409.1	406.9	406.0	406.9	410.0	408.7	410.0	409.1	409.1	406.0	406.0
42.5°	322.8	320.2	318.4	317.1	317.1	314.0	311.9	309.7	308.4	306.2	305.7
45°	248.8	245.7	243.5	242.6	241.3	237.4	234.8	232.1	229.1	228.2	228.6
47.5°	193.2	190.1	189.2	187.0	184.8	182.6	180.9	177.8	177.4	175.6	177.4
50°	148.9	148.1	146.7	145.9	144.5	142.8	141.0	139.3	138.4	138.4	138.8
52.5°	115.6	116.1	114.8	113.4	112.6	112.6	110.4	109.9	109.9	108.2	109.9
55°	88.5	88.0	88.5	87.6	87.6	86.3	86.3	85.0	85.0	83.7	84.5
57.5°	64.8	65.7	64.8	65.3	66.1	64.8	64.4	63.1	63.9	63.1	63.5
60°	50.4	50.4	50.4	49.9	49.9	49.5	49.5	49.1	49.1	48.2	49.1
62.5°	37.2	37.7	37.7	37.7	38.1	37.7	37.2	37.7	37.2	37.2	37.7
65°	24.5	25.0	25.0	24.5	25.4	24.5	25.0	25.4	25.8	25.4	25.8
67.5°	16.6	16.6	17.1	17.5	17.1	17.5	18.0	17.5	18.0	18.8	18.0
70°	12.3	12.7	12.7	12.3	11.8	12.3	11.8	13.1	13.1	13.1	14.0
72.5°	7.9	7.9	7.4	7.4	7.4	7.4	7.4	8.8	7.9	7.4	8.3
75°	4.4	4.8	4.8	3.5	3.9	4.8	3.5	3.9	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	1.7	1.7	1.3	1.7	1.7	1.7	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	1.7
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°	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0	897.0
2.5°	896.1	896.1	895.7	894.9	893.1	893.1	892.7	891.3	890.5	890.0	890.0
5°	891.8	890.0	888.3	883.5	883.5	882.6	880.0	878.2	877.3	875.1	874.3
7.5°	887.8	882.6	879.5	876.4	872.5	870.7	867.7	866.4	863.3	861.1	859.8
10°	878.2	874.7	870.7	865.9	862.9	859.4	855.9	853.2	849.3	847.1	845.3
12.5°	871.6	866.4	862.9	857.6	852.4	849.3	844.5	841.4	837.5	833.1	830.5
15°	865.5	859.8	855.0	849.3	843.6	840.1	834.4	830.9	825.2	820.8	817.8
17.5°	856.3	851.5	846.2	839.2	834.0	829.6	823.4	819.1	813.8	808.1	805.1
20°	846.7	841.0	835.7	828.7	823.4	818.2	812.1	807.3	801.1	795.9	792.4
22.5°	834.0	827.4	823.0	816.0	809.9	804.2	798.5	792.8	787.1	782.7	778.8
25°	815.6	808.5	803.7	798.0	792.4	788.0	781.0	777.5	771.8	767.8	763.9
27.5°	789.3	784.0	779.6	774.0	769.1	765.6	760.4	756.9	752.0	748.5	745.5
30°	750.7	746.4	742.4	736.7	733.2	730.2	725.3	722.3	718.8	714.8	714.0
32.5°	699.1	695.5	691.6	687.7	685.0	683.3	679.3	677.6	674.1	671.9	669.7
35°	621.1	618.0	615.8	614.1	613.2	613.6	612.8	614.5	615.4	615.0	615.4
37.5°	519.0	517.3	518.2	519.5	523.9	529.6	534.8	542.7	547.9	553.2	558.0
40°	405.2	406.5	410.0	417.8	429.2	442.0	453.8	468.7	483.6	494.1	503.7
42.5°	305.7	309.7	318.4	329.8	346.9	365.7	384.1	406.0	424.0	441.5	453.8
45°	230.0	235.2	246.6	262.4	281.2	303.1	326.3	350.8	372.3	390.3	403.8
47.5°	179.2	184.0	195.4	212.0	235.2	258.0	282.1	307.5	329.8	347.3	359.2
50°	141.5	147.6	157.7	175.2	198.4	222.5	247.5	272.4	293.5	308.4	318.9
52.5°	111.3	117.0	126.6	145.0	168.6	192.7	215.9	240.5	258.9	273.3	280.3
55°	86.3	91.5	101.6	117.0	139.3	162.9	186.1	207.2	224.3	234.8	241.3
57.5°	65.7	69.6	76.7	92.0	112.1	134.0	153.7	174.8	187.9	195.4	199.7
60°	49.9	53.0	60.5	72.3	90.7	109.5	126.1	141.9	152.4	158.6	162.9
62.5°	37.7	41.2	46.4	56.5	70.5	85.9	99.9	111.7	120.4	124.4	127.5
65°	25.8	28.5	32.4	40.3	52.1	63.1	74.0	82.8	88.5	92.9	94.6
67.5°	19.3	21.0	23.2	29.4	37.7	46.4	53.9	60.0	66.1	67.9	71.0
70°	14.5	15.8	18.0	22.3	27.2	33.3	39.4	42.9	47.3	50.4	51.3
72.5°	9.2	9.6	11.8	14.5	18.4	22.3	26.3	29.4	32.0	33.7	34.6
75°	5.3	7.9	7.9	10.5	13.1	14.9	17.5	19.7	21.0	22.3	22.3
77.5°	3.5	4.8	5.3	6.6	7.9	10.1	12.3	13.6	14.9	15.3	15.3
80°	3.1	3.5	3.5	4.8	5.7	7.4	8.8	9.2	10.1	10.5	11.4
82.5°	1.3	1.7	2.2	3.5	3.9	3.9	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	3.9	3.9	4.4
87.5°	0.4	0.4	0.0	0.4	0.9	0.9	1.7	1.7	1.7	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: P246020

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	897.0	897.0	897.0	897.0	897.0	897.0	897.0
2.5°	889.2	889.6	887.8	887.4	886.5	887.0	887.8
5°	872.9	873.4	871.6	869.9	869.9	869.4	869.9
7.5°	857.6	858.1	855.4	854.5	852.8	853.2	853.2
10°	842.3	842.3	838.3	837.9	836.6	836.2	836.2
12.5°	827.4	826.1	823.0	821.3	822.1	819.5	819.5
15°	814.2	812.1	808.1	806.8	804.6	803.7	803.7
17.5°	800.7	798.9	795.4	792.8	790.2	789.7	790.2
20°	787.5	785.8	781.4	779.6	777.5	777.5	776.6
22.5°	774.4	772.6	768.7	767.4	764.3	764.3	764.8
25°	760.8	759.5	755.1	754.2	753.8	752.0	752.9
27.5°	742.4	741.5	738.0	736.7	735.0	734.5	735.4
30°	708.7	707.4	704.8	703.4	700.4	700.8	701.7
32.5°	666.6	664.9	661.4	660.1	657.5	656.6	657.0
35°	614.1	612.8	609.7	609.7	607.1	606.2	607.1
37.5°	560.7	562.0	560.7	562.0	560.7	560.2	560.7
40°	510.3	515.1	516.0	520.8	519.0	521.7	521.2
42.5°	462.1	470.0	473.1	477.0	476.1	477.9	479.2
45°	413.5	420.0	423.1	425.7	426.2	427.1	427.5
47.5°	367.5	372.7	373.2	376.2	375.8	375.8	377.1
50°	324.6	328.1	328.9	331.1	329.4	328.5	328.9
52.5°	284.7	288.2	287.3	288.2	286.0	285.1	285.6
55°	244.0	245.7	245.7	245.7	243.1	243.1	243.1
57.5°	202.4	202.8	201.9	202.4	201.9	199.3	198.9
60°	164.3	164.3	163.8	164.3	162.9	161.6	161.6
62.5°	128.3	129.2	131.0	129.2	128.3	129.2	127.9
65°	95.9	97.7	97.2	98.1	97.7	97.7	96.8
67.5°	72.3	72.7	73.1	73.6	73.6	73.6	73.6
70°	53.0	54.3	53.9	53.9	53.9	53.9	56.5
72.5°	35.5	37.2	36.8	37.7	37.7	38.5	37.7
75°	24.1	25.8	25.0	26.3	25.8	25.0	27.2
77.5°	16.2	17.1	17.5	18.0	17.5	17.1	17.5
80°	11.4	12.3	11.8	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)