

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: P245948

Luminaire Tested: **LSR8B20D010 EC8B209727 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245948
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 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1167.0 lumens
Efficiency: N/A
Efficacy: 54.8 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

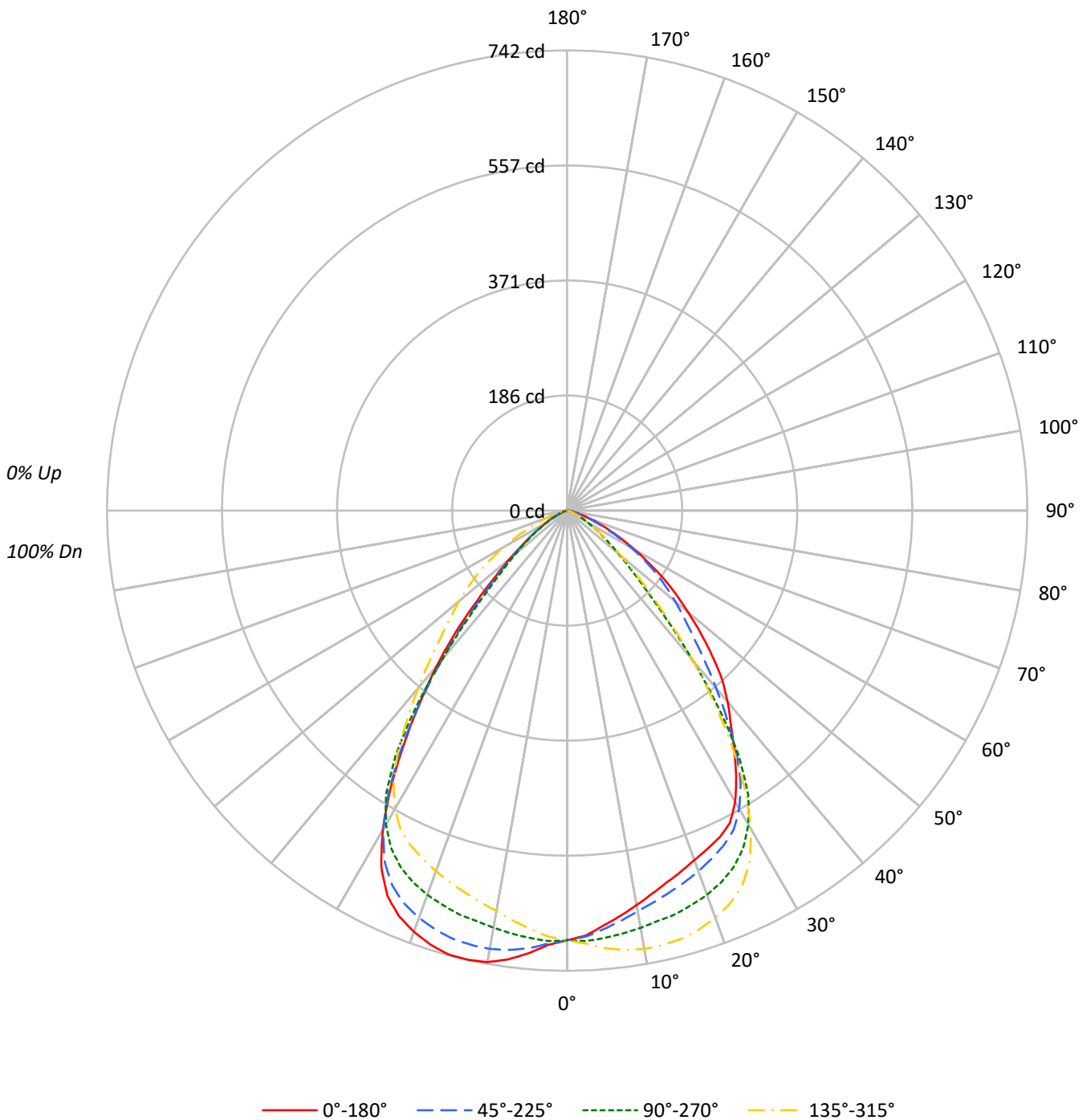
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	65.9	5.7
10°-20°	191.0	16.4
20°-30°	289.1	24.8
30°-40°	289.8	24.8
40°-50°	182.0	15.6
50°-60°	97.0	8.3
60°-70°	39.9	3.4
70°-80°	10.5	0.9
80°-90°	1.8	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°	546.0	46.8
0°-40°	835.8	71.6
0°-60°	1114.8	95.5
0°-90°	1167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1167.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	693	693	693	693	693	
5°	672	692	716	692	672	63
15°	621	674	741	674	621	176
25°	582	635	686	635	582	267
35°	469	482	457	482	469	294
45°	330	177	204	177	330	254
55°	188	65	69	65	188	167
65°	75	20	18	20	75	78
75°	21	4	3	4	21	24
85°	4	0	0	0	4	5
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°	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8
2.5°	685.7	685.0	684.7	685.4	685.7	687.1	686.7	687.4	687.4	687.7	688.4
5°	671.8	671.5	671.8	671.8	673.2	674.5	674.2	675.2	675.9	677.6	678.3
7.5°	659.0	659.0	658.6	660.0	660.7	662.7	662.4	664.1	665.1	666.8	669.1
10°	645.8	645.8	646.1	647.1	647.5	650.5	650.5	652.9	654.2	655.9	659.0
12.5°	632.9	632.9	635.0	634.3	635.6	638.0	639.0	641.4	643.4	646.8	649.9
15°	620.8	620.8	621.4	623.1	624.1	627.2	628.9	631.6	634.0	637.3	641.7
17.5°	610.3	609.9	610.3	612.3	614.3	617.0	618.4	621.8	624.1	628.5	632.6
20°	599.8	600.5	600.5	602.2	603.5	606.9	608.2	612.0	614.7	618.7	623.5
22.5°	590.6	590.3	590.3	592.7	593.7	596.7	598.1	601.5	604.5	607.9	612.3
25°	581.5	580.8	582.2	582.5	583.2	586.6	587.6	590.0	593.0	596.1	600.5
27.5°	568.0	567.3	567.6	569.0	570.0	572.7	573.4	575.8	578.1	580.8	584.6
30°	541.9	541.3	540.9	543.3	544.3	546.3	547.3	551.4	552.1	555.1	557.8
32.5°	507.4	507.1	507.8	509.8	510.8	513.5	514.9	517.2	518.9	520.6	523.3
35°	468.9	468.2	468.9	470.9	470.9	473.3	474.3	475.3	475.0	475.3	474.6
37.5°	433.0	432.7	433.0	434.0	433.0	434.0	433.0	431.0	427.3	423.2	419.1
40°	402.6	402.9	400.9	402.2	398.5	397.8	394.1	389.0	381.6	373.5	362.0
42.5°	370.1	369.1	367.7	368.4	365.4	363.0	356.9	350.5	341.0	327.5	313.6
45°	330.2	329.8	329.2	328.8	326.8	324.4	319.3	311.9	301.4	287.5	271.0
47.5°	291.3	290.2	290.2	290.6	288.2	287.9	283.8	277.4	268.3	254.7	237.5
50°	254.0	253.7	254.4	255.7	254.0	253.4	250.7	246.3	238.2	226.7	210.4
52.5°	220.6	220.2	220.9	222.6	221.9	222.6	219.9	216.5	211.1	199.9	185.7
55°	187.8	187.8	187.8	189.8	189.8	189.8	188.4	186.4	181.3	173.2	160.0
57.5°	153.6	153.9	156.0	156.3	156.0	156.6	156.3	154.3	150.9	145.1	135.0
60°	124.8	124.8	125.8	126.9	126.5	126.9	126.9	125.8	122.5	117.7	109.6
62.5°	98.8	99.8	99.1	99.8	101.1	99.8	99.1	98.4	96.1	93.0	86.3
65°	74.8	75.4	75.4	75.8	75.1	75.4	74.1	73.1	71.7	68.3	63.9
67.5°	56.8	56.8	56.8	56.8	56.5	56.2	55.8	54.8	52.4	51.1	46.3
70°	43.6	41.6	41.6	41.6	41.6	42.0	40.9	39.6	38.9	36.5	33.2
72.5°	29.1	29.8	29.1	29.1	28.4	28.8	27.4	26.7	26.1	24.7	22.7
75°	21.0	19.3	20.0	20.3	19.3	20.0	18.6	17.3	17.3	16.2	15.2
77.5°	13.5	13.2	13.5	13.9	13.5	13.2	12.5	11.8	11.8	11.5	10.5
80°	9.8	9.5	9.5	9.5	9.1	9.5	8.8	8.8	8.1	7.8	7.1
82.5°	6.4	6.4	6.1	6.4	6.1	6.4	5.4	5.4	5.4	5.1	4.4
85°	4.4	3.7	3.7	4.1	3.4	4.1	3.7	3.4	3.0	3.0	2.7
87.5°	2.0	2.4	2.0	2.4	2.0	2.0	2.4	2.0	2.0	1.4	1.4
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°	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8
2.5°	689.4	689.8	689.8	691.1	691.8	692.1	692.1	694.8	693.8	694.5	695.2
5°	679.6	681.6	682.3	682.3	686.0	687.4	688.7	691.8	692.1	694.2	696.5
7.5°	670.1	672.5	673.9	676.9	679.3	681.6	685.7	687.7	689.8	692.5	695.5
10°	661.0	663.7	666.4	668.8	672.5	675.6	678.3	683.0	685.4	689.1	693.1
12.5°	652.2	655.9	658.3	662.4	666.4	669.1	673.2	677.6	681.3	685.0	689.8
15°	644.4	648.8	651.5	655.9	660.3	664.1	668.5	673.9	676.6	681.0	685.4
17.5°	636.0	640.7	644.1	648.2	653.6	657.6	661.4	666.8	670.1	674.9	680.0
20°	627.2	631.9	636.0	640.0	645.5	649.5	653.9	659.3	663.0	667.8	671.8
22.5°	616.7	621.1	625.5	630.2	635.6	639.0	644.1	648.8	652.9	657.3	661.4
25°	603.2	608.6	612.0	616.4	620.8	624.5	629.9	634.6	638.0	642.1	645.8
27.5°	587.3	591.3	594.0	597.8	602.2	605.5	609.6	614.3	617.7	621.4	624.1
30°	560.2	563.9	566.3	569.0	573.4	576.4	579.8	584.2	586.6	589.3	591.7
32.5°	524.7	527.7	529.1	531.1	534.2	537.2	539.9	543.6	544.6	546.3	546.3
35°	473.3	473.9	473.6	474.3	475.6	477.3	479.7	482.1	483.4	483.4	482.4
37.5°	413.0	409.0	404.6	401.2	400.2	399.5	400.9	401.9	403.2	403.9	402.2
40°	350.5	341.3	331.5	322.7	316.6	313.9	312.9	313.6	313.6	316.0	316.0
42.5°	296.7	282.5	267.9	254.7	245.9	239.2	236.1	236.1	236.5	238.2	239.2
45°	252.0	234.1	217.2	202.6	190.5	181.7	177.6	176.6	176.3	176.9	179.3
47.5°	217.9	199.3	181.7	163.7	150.9	142.1	138.4	137.0	135.6	137.0	137.3
50°	191.1	171.9	153.2	135.3	121.8	114.0	109.3	107.2	106.9	106.9	107.6
52.5°	166.8	148.8	130.2	112.0	97.8	90.3	85.9	84.9	83.6	84.9	84.9
55°	143.8	125.8	107.6	90.3	78.5	70.7	66.6	65.3	64.6	65.6	65.6
57.5°	118.7	103.5	86.6	71.0	59.2	53.8	50.7	49.1	48.7	49.4	48.7
60°	97.4	84.6	70.0	55.8	46.7	40.9	38.6	37.9	37.2	37.9	37.9
62.5°	77.1	66.3	54.5	43.6	35.9	31.8	29.1	29.1	28.8	28.8	29.1
65°	57.2	48.7	40.3	31.1	25.0	22.0	20.0	20.0	19.6	20.0	19.6
67.5°	41.6	35.9	29.1	22.7	17.9	16.2	14.9	13.9	14.6	13.9	13.5
70°	30.5	25.7	21.0	17.3	13.9	12.2	11.2	10.8	10.2	10.2	10.2
72.5°	20.3	17.3	14.2	11.2	9.1	7.4	7.1	6.4	5.8	6.1	6.8
75°	13.5	11.5	10.2	8.1	6.1	6.1	4.1	4.1	3.4	4.1	3.0
77.5°	9.5	7.8	6.1	5.1	4.1	3.7	2.7	2.7	2.4	2.4	2.4
80°	6.8	5.8	4.4	3.7	2.7	2.7	2.4	2.0	1.7	1.7	2.0
82.5°	4.1	3.0	3.0	2.7	1.7	1.4	1.0	1.4	0.7	0.7	0.7
85°	2.4	2.0	1.7	1.0	0.7	0.7	0.3	0.0	0.3	0.3	0.0
87.5°	1.4	0.7	0.7	0.3	0.0	0.3	0.3	0.0	0.0	0.0	0.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8
2.5°	696.9	696.5	697.2	697.2	699.2	698.9	699.9	699.9	699.2	699.6	700.9
5°	699.2	700.3	702.3	704.0	707.0	708.4	710.1	711.8	712.1	713.1	714.1
7.5°	699.2	702.6	705.0	708.0	712.1	714.5	718.2	721.2	722.6	724.3	726.3
10°	697.9	701.3	705.7	709.0	714.1	717.8	721.6	726.3	728.3	731.0	733.7
12.5°	695.2	698.9	703.6	708.0	713.8	717.2	721.9	726.3	729.3	733.1	736.1
15°	691.1	695.5	699.9	704.3	710.4	714.5	718.9	723.9	727.0	731.0	733.7
17.5°	684.7	689.4	693.5	697.5	703.3	708.0	712.1	716.8	719.9	723.3	727.0
20°	676.9	681.3	685.7	689.1	694.8	698.9	703.3	707.7	710.1	710.7	716.5
22.5°	667.1	670.1	673.5	678.9	682.3	686.0	690.1	694.2	696.5	700.3	702.3
25°	650.9	653.9	657.6	660.0	664.1	667.1	671.2	675.6	676.9	679.6	681.6
27.5°	628.2	629.9	631.6	633.6	636.0	637.7	640.0	642.1	643.4	644.8	646.1
30°	592.3	592.3	592.3	591.0	592.0	593.0	593.4	593.0	593.0	592.7	592.7
32.5°	545.0	542.3	539.2	536.5	535.5	534.2	533.5	532.5	530.8	529.8	530.1
35°	481.0	475.0	471.2	467.9	465.2	463.1	462.1	461.1	460.8	459.4	458.0
37.5°	401.2	396.8	394.1	392.1	389.7	387.7	388.0	388.4	389.4	388.7	389.0
40°	316.6	315.6	316.6	314.3	313.6	314.3	316.0	318.3	319.7	321.0	323.4
42.5°	240.9	242.5	244.9	244.9	245.9	247.3	249.3	253.0	255.1	257.4	260.1
45°	181.3	183.4	186.4	187.4	188.1	189.8	192.2	195.2	196.5	198.6	200.9
47.5°	139.7	141.1	142.8	144.4	146.1	146.8	149.2	149.2	150.9	152.2	152.9
50°	108.9	110.3	111.6	112.6	113.3	114.3	115.0	116.0	116.4	117.0	117.4
52.5°	85.2	86.9	86.9	87.6	88.6	89.6	89.3	89.6	90.0	90.0	91.0
55°	66.6	66.6	67.7	67.7	68.3	68.0	68.3	68.3	68.3	68.3	68.7
57.5°	49.7	50.1	51.1	50.4	50.1	50.7	50.1	50.7	50.4	51.1	50.1
60°	38.2	38.2	38.6	38.6	38.9	38.9	38.9	38.6	38.6	38.2	38.2
62.5°	28.8	29.1	29.4	29.1	29.1	29.1	28.8	28.8	28.4	28.1	28.1
65°	19.3	19.0	19.6	19.0	19.3	19.3	19.0	19.3	18.3	18.6	18.3
67.5°	13.9	13.5	13.2	13.5	13.2	12.9	12.9	13.2	13.5	12.5	12.5
70°	9.1	9.5	9.1	9.5	9.8	9.8	9.5	9.1	9.5	8.8	9.1
72.5°	5.8	5.8	5.8	5.8	5.8	6.1	6.1	6.1	5.4	5.4	5.1
75°	2.7	3.7	3.0	2.7	3.7	3.7	3.4	3.4	3.0	3.0	3.0
77.5°	2.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.7	2.0	1.7
80°	1.4	1.4	1.4	1.0	1.4	1.4	1.7	1.4	1.4	1.0	1.7
82.5°	0.7	0.7	0.7	0.0	0.3	0.7	0.7	0.3	0.7	0.7	0.3
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°	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8
2.5°	700.6	700.3	700.6	700.9	700.6	700.3	700.6	700.9	699.6	699.2	699.9
5°	715.5	715.5	716.1	716.5	716.1	715.5	715.5	714.1	713.1	712.1	711.8
7.5°	728.3	729.0	729.7	730.0	729.7	729.0	728.3	726.3	724.3	722.6	721.2
10°	736.1	737.1	738.5	739.2	738.5	737.1	736.1	733.7	731.0	728.3	726.3
12.5°	739.5	740.5	742.2	741.9	742.2	740.5	739.5	736.1	733.1	729.3	726.3
15°	737.1	738.5	740.2	740.8	740.2	738.5	737.1	733.7	731.0	727.0	723.9
17.5°	729.7	731.7	732.7	733.7	732.7	731.7	729.7	727.0	723.3	719.9	716.8
20°	719.5	720.9	722.2	722.6	722.2	720.9	719.5	716.5	710.7	710.1	707.7
22.5°	705.0	706.0	709.0	708.0	709.0	706.0	705.0	702.3	700.3	696.5	694.2
25°	684.0	685.0	685.4	685.7	685.4	685.0	684.0	681.6	679.6	676.9	675.6
27.5°	647.8	647.8	648.5	648.8	648.5	647.8	647.8	646.1	644.8	643.4	642.1
30°	593.0	593.0	593.0	594.7	593.0	593.0	593.0	592.7	592.7	593.0	593.0
32.5°	529.8	529.1	528.4	529.1	528.4	529.1	529.8	530.1	529.8	530.8	532.5
35°	458.0	457.7	458.7	457.4	458.7	457.7	458.0	458.0	459.4	460.8	461.1
37.5°	389.4	388.7	390.0	388.7	390.0	388.7	389.4	389.0	388.7	389.4	388.4
40°	324.1	324.8	324.8	327.5	324.8	324.8	324.1	323.4	321.0	319.7	318.3
42.5°	261.5	263.5	262.8	264.9	262.8	263.5	261.5	260.1	257.4	255.1	253.0
45°	202.3	203.7	203.7	204.3	203.7	203.7	202.3	200.9	198.6	196.5	195.2
47.5°	155.3	155.3	155.3	155.6	155.3	155.3	155.3	152.9	152.2	150.9	149.2
50°	118.1	118.4	118.7	119.1	118.7	118.4	118.1	117.4	117.0	116.4	116.0
52.5°	90.7	91.0	90.3	91.0	90.3	91.0	90.7	91.0	90.0	90.0	89.6
55°	68.7	68.3	68.7	69.0	68.7	68.3	68.7	68.7	68.3	68.3	68.3
57.5°	50.4	49.7	49.7	49.7	49.7	49.7	50.4	50.1	51.1	50.4	50.7
60°	37.6	37.9	37.9	38.2	37.9	37.9	37.6	38.2	38.2	38.6	38.6
62.5°	27.7	28.8	28.1	28.8	28.1	28.8	27.7	28.1	28.1	28.4	28.8
65°	17.9	17.9	17.9	18.3	17.9	17.9	17.9	18.3	18.6	18.3	19.3
67.5°	12.2	12.5	13.2	12.9	13.2	12.5	12.2	12.5	12.5	13.5	13.2
70°	9.8	8.8	8.8	9.8	8.8	8.8	9.8	9.1	8.8	9.5	9.1
72.5°	5.8	5.1	5.8	5.8	5.8	5.1	5.8	5.1	5.4	5.4	6.1
75°	3.0	2.7	2.4	3.4	2.4	2.7	3.0	3.0	3.0	3.0	3.4
77.5°	2.0	1.7	2.4	2.4	2.4	1.7	2.0	1.7	2.0	1.7	2.0
80°	1.0	1.4	1.0	1.7	1.0	1.4	1.0	1.7	1.0	1.4	1.4
82.5°	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.7	0.7	0.3
85°	0.0	0.7	0.3	0.3	0.3	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.0	0.0	0.3	0.0	0.0	0.3	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°	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8
2.5°	699.9	698.9	699.2	697.2	697.2	696.5	696.9	695.2	694.5	693.8	694.8
5°	710.1	708.4	707.0	704.0	702.3	700.3	699.2	696.5	694.2	692.1	691.8
7.5°	718.2	714.5	712.1	708.0	705.0	702.6	699.2	695.5	692.5	689.8	687.7
10°	721.6	717.8	714.1	709.0	705.7	701.3	697.9	693.1	689.1	685.4	683.0
12.5°	721.9	717.2	713.8	708.0	703.6	698.9	695.2	689.8	685.0	681.3	677.6
15°	718.9	714.5	710.4	704.3	699.9	695.5	691.1	685.4	681.0	676.6	673.9
17.5°	712.1	708.0	703.3	697.5	693.5	689.4	684.7	680.0	674.9	670.1	666.8
20°	703.3	698.9	694.8	689.1	685.7	681.3	676.9	671.8	667.8	663.0	659.3
22.5°	690.1	686.0	682.3	678.9	673.5	670.1	667.1	661.4	657.3	652.9	648.8
25°	671.2	667.1	664.1	660.0	657.6	653.9	650.9	645.8	642.1	638.0	634.6
27.5°	640.0	637.7	636.0	633.6	631.6	629.9	628.2	624.1	621.4	617.7	614.3
30°	593.4	593.0	592.0	591.0	592.3	592.3	592.3	591.7	589.3	586.6	584.2
32.5°	533.5	534.2	535.5	536.5	539.2	542.3	545.0	546.3	546.3	544.6	543.6
35°	462.1	463.1	465.2	467.9	471.2	475.0	481.0	482.4	483.4	483.4	482.1
37.5°	388.0	387.7	389.7	392.1	394.1	396.8	401.2	402.2	403.9	403.2	401.9
40°	316.0	314.3	313.6	314.3	316.6	315.6	316.6	316.0	316.0	313.6	313.6
42.5°	249.3	247.3	245.9	244.9	244.9	242.5	240.9	239.2	238.2	236.5	236.1
45°	192.2	189.8	188.1	187.4	186.4	183.4	181.3	179.3	176.9	176.3	176.6
47.5°	149.2	146.8	146.1	144.4	142.8	141.1	139.7	137.3	137.0	135.6	137.0
50°	115.0	114.3	113.3	112.6	111.6	110.3	108.9	107.6	106.9	106.9	107.2
52.5°	89.3	89.6	88.6	87.6	86.9	86.9	85.2	84.9	84.9	83.6	84.9
55°	68.3	68.0	68.3	67.7	67.7	66.6	66.6	65.6	65.6	64.6	65.3
57.5°	50.1	50.7	50.1	50.4	51.1	50.1	49.7	48.7	49.4	48.7	49.1
60°	38.9	38.9	38.9	38.6	38.6	38.2	38.2	37.9	37.9	37.2	37.9
62.5°	28.8	29.1	29.1	29.1	29.4	29.1	28.8	29.1	28.8	28.8	29.1
65°	19.0	19.3	19.3	19.0	19.6	19.0	19.3	19.6	20.0	19.6	20.0
67.5°	12.9	12.9	13.2	13.5	13.2	13.5	13.9	13.5	13.9	14.6	13.9
70°	9.5	9.8	9.8	9.5	9.1	9.5	9.1	10.2	10.2	10.2	10.8
72.5°	6.1	6.1	5.8	5.8	5.8	5.8	5.8	6.8	6.1	5.8	6.4
75°	3.4	3.7	3.7	2.7	3.0	3.7	2.7	3.0	4.1	3.4	4.1
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.4	2.4	2.4	2.7
80°	1.7	1.4	1.4	1.0	1.4	1.4	1.4	2.0	1.7	1.7	2.0
82.5°	0.7	0.7	0.3	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	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°	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8	692.8
2.5°	692.1	692.1	691.8	691.1	689.8	689.8	689.4	688.4	687.7	687.4	687.4
5°	688.7	687.4	686.0	682.3	682.3	681.6	679.6	678.3	677.6	675.9	675.2
7.5°	685.7	681.6	679.3	676.9	673.9	672.5	670.1	669.1	666.8	665.1	664.1
10°	678.3	675.6	672.5	668.8	666.4	663.7	661.0	659.0	655.9	654.2	652.9
12.5°	673.2	669.1	666.4	662.4	658.3	655.9	652.2	649.9	646.8	643.4	641.4
15°	668.5	664.1	660.3	655.9	651.5	648.8	644.4	641.7	637.3	634.0	631.6
17.5°	661.4	657.6	653.6	648.2	644.1	640.7	636.0	632.6	628.5	624.1	621.8
20°	653.9	649.5	645.5	640.0	636.0	631.9	627.2	623.5	618.7	614.7	612.0
22.5°	644.1	639.0	635.6	630.2	625.5	621.1	616.7	612.3	607.9	604.5	601.5
25°	629.9	624.5	620.8	616.4	612.0	608.6	603.2	600.5	596.1	593.0	590.0
27.5°	609.6	605.5	602.2	597.8	594.0	591.3	587.3	584.6	580.8	578.1	575.8
30°	579.8	576.4	573.4	569.0	566.3	563.9	560.2	557.8	555.1	552.1	551.4
32.5°	539.9	537.2	534.2	531.1	529.1	527.7	524.7	523.3	520.6	518.9	517.2
35°	479.7	477.3	475.6	474.3	473.6	473.9	473.3	474.6	475.3	475.0	475.3
37.5°	400.9	399.5	400.2	401.2	404.6	409.0	413.0	419.1	423.2	427.3	431.0
40°	312.9	313.9	316.6	322.7	331.5	341.3	350.5	362.0	373.5	381.6	389.0
42.5°	236.1	239.2	245.9	254.7	267.9	282.5	296.7	313.6	327.5	341.0	350.5
45°	177.6	181.7	190.5	202.6	217.2	234.1	252.0	271.0	287.5	301.4	311.9
47.5°	138.4	142.1	150.9	163.7	181.7	199.3	217.9	237.5	254.7	268.3	277.4
50°	109.3	114.0	121.8	135.3	153.2	171.9	191.1	210.4	226.7	238.2	246.3
52.5°	85.9	90.3	97.8	112.0	130.2	148.8	166.8	185.7	199.9	211.1	216.5
55°	66.6	70.7	78.5	90.3	107.6	125.8	143.8	160.0	173.2	181.3	186.4
57.5°	50.7	53.8	59.2	71.0	86.6	103.5	118.7	135.0	145.1	150.9	154.3
60°	38.6	40.9	46.7	55.8	70.0	84.6	97.4	109.6	117.7	122.5	125.8
62.5°	29.1	31.8	35.9	43.6	54.5	66.3	77.1	86.3	93.0	96.1	98.4
65°	20.0	22.0	25.0	31.1	40.3	48.7	57.2	63.9	68.3	71.7	73.1
67.5°	14.9	16.2	17.9	22.7	29.1	35.9	41.6	46.3	51.1	52.4	54.8
70°	11.2	12.2	13.9	17.3	21.0	25.7	30.5	33.2	36.5	38.9	39.6
72.5°	7.1	7.4	9.1	11.2	14.2	17.3	20.3	22.7	24.7	26.1	26.7
75°	4.1	6.1	6.1	8.1	10.2	11.5	13.5	15.2	16.2	17.3	17.3
77.5°	2.7	3.7	4.1	5.1	6.1	7.8	9.5	10.5	11.5	11.8	11.8
80°	2.4	2.7	2.7	3.7	4.4	5.8	6.8	7.1	7.8	8.1	8.8
82.5°	1.0	1.4	1.7	2.7	3.0	3.0	4.1	4.4	5.1	5.4	5.4
85°	0.3	0.7	0.7	1.0	1.7	2.0	2.4	2.7	3.0	3.0	3.4
87.5°	0.3	0.3	0.0	0.3	0.7	0.7	1.4	1.4	1.4	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



TEST NUMBER: P245948

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	692.8	692.8	692.8	692.8	692.8	692.8	692.8
2.5°	686.7	687.1	685.7	685.4	684.7	685.0	685.7
5°	674.2	674.5	673.2	671.8	671.8	671.5	671.8
7.5°	662.4	662.7	660.7	660.0	658.6	659.0	659.0
10°	650.5	650.5	647.5	647.1	646.1	645.8	645.8
12.5°	639.0	638.0	635.6	634.3	635.0	632.9	632.9
15°	628.9	627.2	624.1	623.1	621.4	620.8	620.8
17.5°	618.4	617.0	614.3	612.3	610.3	609.9	610.3
20°	608.2	606.9	603.5	602.2	600.5	600.5	599.8
22.5°	598.1	596.7	593.7	592.7	590.3	590.3	590.6
25°	587.6	586.6	583.2	582.5	582.2	580.8	581.5
27.5°	573.4	572.7	570.0	569.0	567.6	567.3	568.0
30°	547.3	546.3	544.3	543.3	540.9	541.3	541.9
32.5°	514.9	513.5	510.8	509.8	507.8	507.1	507.4
35°	474.3	473.3	470.9	470.9	468.9	468.2	468.9
37.5°	433.0	434.0	433.0	434.0	433.0	432.7	433.0
40°	394.1	397.8	398.5	402.2	400.9	402.9	402.6
42.5°	356.9	363.0	365.4	368.4	367.7	369.1	370.1
45°	319.3	324.4	326.8	328.8	329.2	329.8	330.2
47.5°	283.8	287.9	288.2	290.6	290.2	290.2	291.3
50°	250.7	253.4	254.0	255.7	254.4	253.7	254.0
52.5°	219.9	222.6	221.9	222.6	220.9	220.2	220.6
55°	188.4	189.8	189.8	189.8	187.8	187.8	187.8
57.5°	156.3	156.6	156.0	156.3	156.0	153.9	153.6
60°	126.9	126.9	126.5	126.9	125.8	124.8	124.8
62.5°	99.1	99.8	101.1	99.8	99.1	99.8	98.8
65°	74.1	75.4	75.1	75.8	75.4	75.4	74.8
67.5°	55.8	56.2	56.5	56.8	56.8	56.8	56.8
70°	40.9	42.0	41.6	41.6	41.6	41.6	43.6
72.5°	27.4	28.8	28.4	29.1	29.1	29.8	29.1
75°	18.6	20.0	19.3	20.3	20.0	19.3	21.0
77.5°	12.5	13.2	13.5	13.9	13.5	13.2	13.5
80°	8.8	9.5	9.1	9.5	9.5	9.5	9.8
82.5°	5.4	6.4	6.1	6.4	6.1	6.4	6.4
85°	3.7	4.1	3.4	4.1	3.7	3.7	4.4
87.5°	2.4	2.0	2.0	2.4	2.0	2.4	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)