

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: P245911

Luminaire Tested: **LSR8B15D010 EC8B15850 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245911
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: LSR8B15D010 EC8B15850 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1195.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 14.4
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	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					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21875	21875	21875	21875
5°	21296	21928	22711	21928
10°	20707	21900	23700	21900
15°	20291	22028	24218	22028
20°	20155	22154	24280	22154
25°	20261	22109	23892	22109
30°	19758	21300	21684	21300
35°	18073	18581	17629	18581
40°	16593	12926	13497	12926
45°	14744	7885	9123	7885
50°	12478	5267	5848	5267
55°	10338	3597	3801	3597
60°	7882	2393	2411	2393
65°	5589	1488	1364	1488
70°	4030	1001	911	1001
75°	2562	500	417	500
80°	1794	373	302	373
85°	1592	0	106	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	5.7
10°-20°	195.5	16.4
20°-30°	296.1	24.8
30°-40°	296.8	24.8
40°-50°	186.3	15.6
50°-60°	99.3	8.3
60°-70°	40.8	3.4
70°-80°	10.8	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°	559.2	46.8
0°-40°	855.9	71.6
0°-60°	1141.6	95.5
0°-90°	1195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1195.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	709	709	709	709	709	
5°	688	708	734	708	688	65
15°	636	690	759	690	636	180
25°	596	650	702	650	596	273
35°	480	494	468	494	480	301
45°	338	181	209	181	338	260
55°	192	67	71	67	192	171
65°	77	20	19	20	77	79
75°	22	4	4	4	22	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°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	702.2	701.5	701.1	701.8	702.2	703.5	703.2	703.9	703.9	704.2	704.9
5°	688.0	687.6	688.0	688.0	689.3	690.7	690.4	691.4	692.1	693.8	694.5
7.5°	674.8	674.8	674.4	675.8	676.5	678.6	678.3	680.0	681.0	682.8	685.2
10°	661.3	661.3	661.6	662.7	663.0	666.1	666.1	668.6	669.9	671.7	674.8
12.5°	648.1	648.1	650.2	649.5	650.9	653.3	654.4	656.8	658.9	662.3	665.4
15°	635.6	635.6	636.3	638.1	639.1	642.2	644.0	646.7	649.2	652.6	657.1
17.5°	624.9	624.6	624.9	627.0	629.1	631.8	633.2	636.7	639.1	643.6	647.8
20°	614.2	614.9	614.9	616.6	618.0	621.4	622.8	626.7	629.4	633.6	638.4
22.5°	604.8	604.5	604.5	606.9	607.9	611.1	612.4	615.9	619.0	622.5	627.0
25°	595.5	594.8	596.2	596.5	597.2	600.7	601.7	604.1	607.2	610.4	614.9
27.5°	581.6	580.9	581.3	582.6	583.7	586.5	587.2	589.6	592.0	594.8	598.6
30°	554.9	554.2	553.9	556.3	557.4	559.4	560.5	564.6	565.3	568.4	571.2
32.5°	519.6	519.3	520.0	522.0	523.1	525.8	527.2	529.7	531.4	533.1	535.9
35°	480.1	479.4	480.1	482.2	482.2	484.6	485.7	486.7	486.3	486.7	486.0
37.5°	443.4	443.0	443.4	444.4	443.4	444.4	443.4	441.3	437.5	433.4	429.2
40°	412.2	412.6	410.5	411.9	408.1	407.4	403.6	398.4	390.7	382.4	370.7
42.5°	379.0	377.9	376.5	377.2	374.1	371.7	365.5	358.9	349.2	335.3	321.1
45°	338.1	337.7	337.1	336.7	334.6	332.2	327.0	319.4	308.6	294.4	277.5
47.5°	298.3	297.2	297.2	297.6	295.1	294.8	290.6	284.1	274.7	260.8	243.2
50°	260.1	259.8	260.5	261.9	260.1	259.5	256.7	252.2	243.9	232.1	215.5
52.5°	225.9	225.5	226.2	227.9	227.2	227.9	225.2	221.7	216.2	204.7	190.2
55°	192.3	192.3	192.3	194.3	194.3	194.3	192.9	190.9	185.7	177.4	163.9
57.5°	157.3	157.6	159.7	160.0	159.7	160.4	160.0	158.0	154.5	148.6	138.2
60°	127.8	127.8	128.9	129.9	129.6	129.9	129.9	128.9	125.4	120.6	112.2
62.5°	101.1	102.2	101.5	102.2	103.6	102.2	101.5	100.8	98.4	95.3	88.3
65°	76.6	77.3	77.3	77.6	76.9	77.3	75.9	74.8	73.4	70.0	65.5
67.5°	58.2	58.2	58.2	58.2	57.8	57.5	57.2	56.1	53.7	52.3	47.5
70°	44.7	42.6	42.6	42.6	42.6	43.0	41.9	40.5	39.8	37.4	33.9
72.5°	29.8	30.5	29.8	29.8	29.1	29.4	28.1	27.4	26.7	25.3	23.2
75°	21.5	19.7	20.4	20.8	19.7	20.4	19.0	17.7	17.7	16.6	15.6
77.5°	13.9	13.5	13.9	14.2	13.9	13.5	12.8	12.1	12.1	11.8	10.7
80°	10.1	9.7	9.7	9.7	9.4	9.7	9.0	9.0	8.3	8.0	7.3
82.5°	6.6	6.6	6.2	6.6	6.2	6.6	5.5	5.5	5.5	5.2	4.5
85°	4.5	3.8	3.8	4.2	3.5	4.2	3.8	3.5	3.1	3.1	2.8
87.5°	2.1	2.4	2.1	2.4	2.1	2.1	2.4	2.1	2.1	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°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	706.0	706.3	706.3	707.7	708.4	708.7	708.7	711.5	710.5	711.2	711.9
5°	695.9	698.0	698.7	698.7	702.5	703.9	705.3	708.4	708.7	710.8	713.2
7.5°	686.2	688.6	690.0	693.2	695.6	698.0	702.2	704.2	706.3	709.1	712.2
10°	676.9	679.6	682.4	684.8	688.6	691.8	694.5	699.4	701.8	705.6	709.8
12.5°	667.9	671.7	674.1	678.3	682.4	685.2	689.3	693.8	697.7	701.5	706.3
15°	659.9	664.4	667.2	671.7	676.2	680.0	684.5	690.0	692.8	697.3	701.8
17.5°	651.2	656.1	659.6	663.7	669.3	673.4	677.2	682.8	686.2	691.1	696.3
20°	642.2	647.1	651.2	655.4	660.9	665.1	669.6	675.1	678.9	683.8	688.0
22.5°	631.5	636.0	640.5	645.3	650.9	654.4	659.6	664.4	668.6	673.1	677.2
25°	617.6	623.2	626.7	631.1	635.6	639.5	645.0	649.8	653.3	657.5	661.3
27.5°	601.4	605.5	608.3	612.1	616.6	620.1	624.2	629.1	632.5	636.3	639.1
30°	573.6	577.5	579.9	582.6	587.2	590.3	593.7	598.2	600.7	603.4	605.9
32.5°	537.3	540.4	541.8	543.9	547.0	550.1	552.9	556.7	557.7	559.4	559.4
35°	484.6	485.3	485.0	485.7	487.0	488.8	491.2	493.6	495.0	495.0	494.0
37.5°	423.0	418.8	414.3	410.8	409.8	409.1	410.5	411.5	412.9	413.6	411.9
40°	358.9	349.5	339.5	330.5	324.2	321.5	320.4	321.1	321.1	323.5	323.5
42.5°	303.8	289.2	274.4	260.8	251.8	244.9	241.8	241.8	242.1	243.9	244.9
45°	258.1	239.7	222.4	207.5	195.0	186.0	181.9	180.8	180.5	181.2	183.6
47.5°	223.1	204.0	186.0	167.7	154.5	145.5	141.7	140.3	138.9	140.3	140.6
50°	195.7	176.0	156.9	138.6	124.7	116.7	111.9	109.8	109.5	109.5	110.2
52.5°	170.8	152.4	133.4	114.7	100.1	92.5	88.0	86.9	85.6	86.9	86.9
55°	147.2	128.9	110.2	92.5	80.4	72.4	68.2	66.9	66.2	67.2	67.2
57.5°	121.6	106.0	88.7	72.7	60.6	55.1	52.0	50.2	49.9	50.6	49.9
60°	99.8	86.6	71.7	57.2	47.8	41.9	39.5	38.8	38.1	38.8	38.8
62.5°	79.0	67.9	55.8	44.7	36.7	32.6	29.8	29.8	29.4	29.4	29.8
65°	58.5	49.9	41.2	31.9	25.6	22.5	20.4	20.4	20.1	20.4	20.1
67.5°	42.6	36.7	29.8	23.2	18.4	16.6	15.2	14.2	14.9	14.2	13.9
70°	31.2	26.3	21.5	17.7	14.2	12.5	11.4	11.1	10.4	10.4	10.4
72.5°	20.8	17.7	14.5	11.4	9.4	7.6	7.3	6.6	5.9	6.2	6.9
75°	13.9	11.8	10.4	8.3	6.2	6.2	4.2	4.2	3.5	4.2	3.1
77.5°	9.7	8.0	6.2	5.2	4.2	3.8	2.8	2.8	2.4	2.4	2.4
80°	6.9	5.9	4.5	3.8	2.8	2.8	2.4	2.1	1.7	1.7	2.1
82.5°	4.2	3.1	3.1	2.8	1.7	1.4	1.0	1.4	0.7	0.7	0.7
85°	2.4	2.1	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°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	713.6	713.2	713.9	713.9	716.0	715.7	716.7	716.7	716.0	716.4	717.7
5°	716.0	717.1	719.1	720.9	724.0	725.4	727.1	728.8	729.2	730.2	731.3
7.5°	716.0	719.5	721.9	725.0	729.2	731.6	735.4	738.5	739.9	741.6	743.7
10°	714.6	718.1	722.6	726.1	731.3	735.1	738.9	743.7	745.8	748.6	751.4
12.5°	711.9	715.7	720.5	725.0	730.9	734.4	739.2	743.7	746.8	750.7	753.8
15°	707.7	712.2	716.7	721.2	727.4	731.6	736.1	741.3	744.4	748.6	751.4
17.5°	701.1	706.0	710.1	714.3	720.2	725.0	729.2	734.0	737.2	740.6	744.4
20°	693.2	697.7	702.2	705.6	711.5	715.7	720.2	724.7	727.1	727.8	733.7
22.5°	683.1	686.2	689.7	695.2	698.7	702.5	706.7	710.8	713.2	717.1	719.1
25°	666.5	669.6	673.4	675.8	680.0	683.1	687.3	691.8	693.2	695.9	698.0
27.5°	643.3	645.0	646.7	648.8	651.2	653.0	655.4	657.5	658.9	660.2	661.6
30°	606.5	606.5	606.5	605.2	606.2	607.2	607.6	607.2	607.2	606.9	606.9
32.5°	558.1	555.3	552.2	549.4	548.4	547.0	546.3	545.2	543.5	542.5	542.8
35°	492.6	486.3	482.5	479.1	476.3	474.2	473.2	472.1	471.8	470.4	469.0
37.5°	410.8	406.3	403.6	401.5	399.1	397.0	397.3	397.7	398.7	398.0	398.4
40°	324.2	323.2	324.2	321.8	321.1	321.8	323.5	326.0	327.4	328.7	331.2
42.5°	246.6	248.4	250.8	250.8	251.8	253.2	255.3	259.1	261.2	263.6	266.4
45°	185.7	187.8	190.9	191.9	192.6	194.3	196.8	199.9	201.3	203.3	205.8
47.5°	143.1	144.5	146.2	147.9	149.6	150.3	152.8	152.8	154.5	155.9	156.6
50°	111.5	112.9	114.3	115.3	116.0	117.1	117.8	118.8	119.2	119.9	120.2
52.5°	87.3	89.0	89.0	89.7	90.8	91.8	91.5	91.8	92.1	92.1	93.2
55°	68.2	68.2	69.3	69.3	70.0	69.6	70.0	70.0	70.0	70.0	70.3
57.5°	50.9	51.3	52.3	51.6	51.3	52.0	51.3	52.0	51.6	52.3	51.3
60°	39.1	39.1	39.5	39.5	39.8	39.8	39.8	39.5	39.5	39.1	39.1
62.5°	29.4	29.8	30.1	29.8	29.8	29.8	29.4	29.4	29.1	28.7	28.7
65°	19.7	19.4	20.1	19.4	19.7	19.7	19.4	19.7	18.7	19.0	18.7
67.5°	14.2	13.9	13.5	13.9	13.5	13.2	13.2	13.5	13.9	12.8	12.8
70°	9.4	9.7	9.4	9.7	10.1	10.1	9.7	9.4	9.7	9.0	9.4
72.5°	5.9	5.9	5.9	5.9	5.9	6.2	6.2	6.2	5.5	5.5	5.2
75°	2.8	3.8	3.1	2.8	3.8	3.8	3.5	3.5	3.1	3.1	3.1
77.5°	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.7	2.1	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°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	717.4	717.1	717.4	717.7	717.4	717.1	717.4	717.7	716.4	716.0	716.7
5°	732.6	732.6	733.3	733.7	733.3	732.6	732.6	731.3	730.2	729.2	728.8
7.5°	745.8	746.5	747.2	747.5	747.2	746.5	745.8	743.7	741.6	739.9	738.5
10°	753.8	754.8	756.2	756.9	756.2	754.8	753.8	751.4	748.6	745.8	743.7
12.5°	757.2	758.3	760.0	759.7	760.0	758.3	757.2	753.8	750.7	746.8	743.7
15°	754.8	756.2	757.9	758.6	757.9	756.2	754.8	751.4	748.6	744.4	741.3
17.5°	747.2	749.3	750.3	751.4	750.3	749.3	747.2	744.4	740.6	737.2	734.0
20°	736.8	738.2	739.6	739.9	739.6	738.2	736.8	733.7	727.8	727.1	724.7
22.5°	721.9	723.0	726.1	725.0	726.1	723.0	721.9	719.1	717.1	713.2	710.8
25°	700.4	701.5	701.8	702.2	701.8	701.5	700.4	698.0	695.9	693.2	691.8
27.5°	663.4	663.4	664.0	664.4	664.0	663.4	663.4	661.6	660.2	658.9	657.5
30°	607.2	607.2	607.2	609.0	607.2	607.2	607.2	606.9	606.9	607.2	607.2
32.5°	542.5	541.8	541.1	541.8	541.1	541.8	542.5	542.8	542.5	543.5	545.2
35°	469.0	468.7	469.7	468.3	469.7	468.7	469.0	469.0	470.4	471.8	472.1
37.5°	398.7	398.0	399.4	398.0	399.4	398.0	398.7	398.4	398.0	398.7	397.7
40°	331.9	332.5	332.5	335.3	332.5	332.5	331.9	331.2	328.7	327.4	326.0
42.5°	267.8	269.9	269.2	271.2	269.2	269.9	267.8	266.4	263.6	261.2	259.1
45°	207.1	208.5	208.5	209.2	208.5	208.5	207.1	205.8	203.3	201.3	199.9
47.5°	159.0	159.0	159.0	159.4	159.0	159.0	159.0	156.6	155.9	154.5	152.8
50°	120.9	121.2	121.6	121.9	121.6	121.2	120.9	120.2	119.9	119.2	118.8
52.5°	92.8	93.2	92.5	93.2	92.5	93.2	92.8	93.2	92.1	92.1	91.8
55°	70.3	70.0	70.3	70.7	70.3	70.0	70.3	70.3	70.0	70.0	70.0
57.5°	51.6	50.9	50.9	50.9	50.9	50.9	51.6	51.3	52.3	51.6	52.0
60°	38.5	38.8	38.8	39.1	38.8	38.8	38.5	39.1	39.1	39.5	39.5
62.5°	28.4	29.4	28.7	29.4	28.7	29.4	28.4	28.7	28.7	29.1	29.4
65°	18.4	18.4	18.4	18.7	18.4	18.4	18.4	18.7	19.0	18.7	19.7
67.5°	12.5	12.8	13.5	13.2	13.5	12.8	12.5	12.8	12.8	13.9	13.5
70°	10.1	9.0	9.0	10.1	9.0	9.0	10.1	9.4	9.0	9.7	9.4
72.5°	5.9	5.2	5.9	5.9	5.9	5.2	5.9	5.2	5.5	5.5	6.2
75°	3.1	2.8	2.4	3.5	2.4	2.8	3.1	3.1	3.1	3.1	3.5
77.5°	2.1	1.7	2.4	2.4	2.4	1.7	2.1	1.7	2.1	1.7	2.1
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°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	716.7	715.7	716.0	713.9	713.9	713.2	713.6	711.9	711.2	710.5	711.5
5°	727.1	725.4	724.0	720.9	719.1	717.1	716.0	713.2	710.8	708.7	708.4
7.5°	735.4	731.6	729.2	725.0	721.9	719.5	716.0	712.2	709.1	706.3	704.2
10°	738.9	735.1	731.3	726.1	722.6	718.1	714.6	709.8	705.6	701.8	699.4
12.5°	739.2	734.4	730.9	725.0	720.5	715.7	711.9	706.3	701.5	697.7	693.8
15°	736.1	731.6	727.4	721.2	716.7	712.2	707.7	701.8	697.3	692.8	690.0
17.5°	729.2	725.0	720.2	714.3	710.1	706.0	701.1	696.3	691.1	686.2	682.8
20°	720.2	715.7	711.5	705.6	702.2	697.7	693.2	688.0	683.8	678.9	675.1
22.5°	706.7	702.5	698.7	695.2	689.7	686.2	683.1	677.2	673.1	668.6	664.4
25°	687.3	683.1	680.0	675.8	673.4	669.6	666.5	661.3	657.5	653.3	649.8
27.5°	655.4	653.0	651.2	648.8	646.7	645.0	643.3	639.1	636.3	632.5	629.1
30°	607.6	607.2	606.2	605.2	606.5	606.5	606.5	605.9	603.4	600.7	598.2
32.5°	546.3	547.0	548.4	549.4	552.2	555.3	558.1	559.4	559.4	557.7	556.7
35°	473.2	474.2	476.3	479.1	482.5	486.3	492.6	494.0	495.0	495.0	493.6
37.5°	397.3	397.0	399.1	401.5	403.6	406.3	410.8	411.9	413.6	412.9	411.5
40°	323.5	321.8	321.1	321.8	324.2	323.2	324.2	323.5	323.5	321.1	321.1
42.5°	255.3	253.2	251.8	250.8	250.8	248.4	246.6	244.9	243.9	242.1	241.8
45°	196.8	194.3	192.6	191.9	190.9	187.8	185.7	183.6	181.2	180.5	180.8
47.5°	152.8	150.3	149.6	147.9	146.2	144.5	143.1	140.6	140.3	138.9	140.3
50°	117.8	117.1	116.0	115.3	114.3	112.9	111.5	110.2	109.5	109.5	109.8
52.5°	91.5	91.8	90.8	89.7	89.0	89.0	87.3	86.9	86.9	85.6	86.9
55°	70.0	69.6	70.0	69.3	69.3	68.2	68.2	67.2	67.2	66.2	66.9
57.5°	51.3	52.0	51.3	51.6	52.3	51.3	50.9	49.9	50.6	49.9	50.2
60°	39.8	39.8	39.8	39.5	39.5	39.1	39.1	38.8	38.8	38.1	38.8
62.5°	29.4	29.8	29.8	29.8	30.1	29.8	29.4	29.8	29.4	29.4	29.8
65°	19.4	19.7	19.7	19.4	20.1	19.4	19.7	20.1	20.4	20.1	20.4
67.5°	13.2	13.2	13.5	13.9	13.5	13.9	14.2	13.9	14.2	14.9	14.2
70°	9.7	10.1	10.1	9.7	9.4	9.7	9.4	10.4	10.4	10.4	11.1
72.5°	6.2	6.2	5.9	5.9	5.9	5.9	5.9	6.9	6.2	5.9	6.6
75°	3.5	3.8	3.8	2.8	3.1	3.8	2.8	3.1	4.2	3.5	4.2
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.4	2.4	2.4	2.8
80°	1.7	1.4	1.4	1.0	1.4	1.4	1.4	2.1	1.7	1.7	2.1
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°	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	708.7	708.7	708.4	707.7	706.3	706.3	706.0	704.9	704.2	703.9	703.9
5°	705.3	703.9	702.5	698.7	698.7	698.0	695.9	694.5	693.8	692.1	691.4
7.5°	702.2	698.0	695.6	693.2	690.0	688.6	686.2	685.2	682.8	681.0	680.0
10°	694.5	691.8	688.6	684.8	682.4	679.6	676.9	674.8	671.7	669.9	668.6
12.5°	689.3	685.2	682.4	678.3	674.1	671.7	667.9	665.4	662.3	658.9	656.8
15°	684.5	680.0	676.2	671.7	667.2	664.4	659.9	657.1	652.6	649.2	646.7
17.5°	677.2	673.4	669.3	663.7	659.6	656.1	651.2	647.8	643.6	639.1	636.7
20°	669.6	665.1	660.9	655.4	651.2	647.1	642.2	638.4	633.6	629.4	626.7
22.5°	659.6	654.4	650.9	645.3	640.5	636.0	631.5	627.0	622.5	619.0	615.9
25°	645.0	639.5	635.6	631.1	626.7	623.2	617.6	614.9	610.4	607.2	604.1
27.5°	624.2	620.1	616.6	612.1	608.3	605.5	601.4	598.6	594.8	592.0	589.6
30°	593.7	590.3	587.2	582.6	579.9	577.5	573.6	571.2	568.4	565.3	564.6
32.5°	552.9	550.1	547.0	543.9	541.8	540.4	537.3	535.9	533.1	531.4	529.7
35°	491.2	488.8	487.0	485.7	485.0	485.3	484.6	486.0	486.7	486.3	486.7
37.5°	410.5	409.1	409.8	410.8	414.3	418.8	423.0	429.2	433.4	437.5	441.3
40°	320.4	321.5	324.2	330.5	339.5	349.5	358.9	370.7	382.4	390.7	398.4
42.5°	241.8	244.9	251.8	260.8	274.4	289.2	303.8	321.1	335.3	349.2	358.9
45°	181.9	186.0	195.0	207.5	222.4	239.7	258.1	277.5	294.4	308.6	319.4
47.5°	141.7	145.5	154.5	167.7	186.0	204.0	223.1	243.2	260.8	274.7	284.1
50°	111.9	116.7	124.7	138.6	156.9	176.0	195.7	215.5	232.1	243.9	252.2
52.5°	88.0	92.5	100.1	114.7	133.4	152.4	170.8	190.2	204.7	216.2	221.7
55°	68.2	72.4	80.4	92.5	110.2	128.9	147.2	163.9	177.4	185.7	190.9
57.5°	52.0	55.1	60.6	72.7	88.7	106.0	121.6	138.2	148.6	154.5	158.0
60°	39.5	41.9	47.8	57.2	71.7	86.6	99.8	112.2	120.6	125.4	128.9
62.5°	29.8	32.6	36.7	44.7	55.8	67.9	79.0	88.3	95.3	98.4	100.8
65°	20.4	22.5	25.6	31.9	41.2	49.9	58.5	65.5	70.0	73.4	74.8
67.5°	15.2	16.6	18.4	23.2	29.8	36.7	42.6	47.5	52.3	53.7	56.1
70°	11.4	12.5	14.2	17.7	21.5	26.3	31.2	33.9	37.4	39.8	40.5
72.5°	7.3	7.6	9.4	11.4	14.5	17.7	20.8	23.2	25.3	26.7	27.4
75°	4.2	6.2	6.2	8.3	10.4	11.8	13.9	15.6	16.6	17.7	17.7
77.5°	2.8	3.8	4.2	5.2	6.2	8.0	9.7	10.7	11.8	12.1	12.1
80°	2.4	2.8	2.8	3.8	4.5	5.9	6.9	7.3	8.0	8.3	9.0
82.5°	1.0	1.4	1.7	2.8	3.1	3.1	4.2	4.5	5.2	5.5	5.5
85°	0.3	0.7	0.7	1.0	1.7	2.1	2.4	2.8	3.1	3.1	3.5
87.5°	0.3	0.3	0.0	0.3	0.7	0.7	1.4	1.4	1.4	2.1	2.1
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: P245911

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	709.4	709.4	709.4	709.4	709.4	709.4	709.4
2.5°	703.2	703.5	702.2	701.8	701.1	701.5	702.2
5°	690.4	690.7	689.3	688.0	688.0	687.6	688.0
7.5°	678.3	678.6	676.5	675.8	674.4	674.8	674.8
10°	666.1	666.1	663.0	662.7	661.6	661.3	661.3
12.5°	654.4	653.3	650.9	649.5	650.2	648.1	648.1
15°	644.0	642.2	639.1	638.1	636.3	635.6	635.6
17.5°	633.2	631.8	629.1	627.0	624.9	624.6	624.9
20°	622.8	621.4	618.0	616.6	614.9	614.9	614.2
22.5°	612.4	611.1	607.9	606.9	604.5	604.5	604.8
25°	601.7	600.7	597.2	596.5	596.2	594.8	595.5
27.5°	587.2	586.5	583.7	582.6	581.3	580.9	581.6
30°	560.5	559.4	557.4	556.3	553.9	554.2	554.9
32.5°	527.2	525.8	523.1	522.0	520.0	519.3	519.6
35°	485.7	484.6	482.2	482.2	480.1	479.4	480.1
37.5°	443.4	444.4	443.4	444.4	443.4	443.0	443.4
40°	403.6	407.4	408.1	411.9	410.5	412.6	412.2
42.5°	365.5	371.7	374.1	377.2	376.5	377.9	379.0
45°	327.0	332.2	334.6	336.7	337.1	337.7	338.1
47.5°	290.6	294.8	295.1	297.6	297.2	297.2	298.3
50°	256.7	259.5	260.1	261.9	260.5	259.8	260.1
52.5°	225.2	227.9	227.2	227.9	226.2	225.5	225.9
55°	192.9	194.3	194.3	194.3	192.3	192.3	192.3
57.5°	160.0	160.4	159.7	160.0	159.7	157.6	157.3
60°	129.9	129.9	129.6	129.9	128.9	127.8	127.8
62.5°	101.5	102.2	103.6	102.2	101.5	102.2	101.1
65°	75.9	77.3	76.9	77.6	77.3	77.3	76.6
67.5°	57.2	57.5	57.8	58.2	58.2	58.2	58.2
70°	41.9	43.0	42.6	42.6	42.6	42.6	44.7
72.5°	28.1	29.4	29.1	29.8	29.8	30.5	29.8
75°	19.0	20.4	19.7	20.8	20.4	19.7	21.5
77.5°	12.8	13.5	13.9	14.2	13.9	13.5	13.9
80°	9.0	9.7	9.4	9.7	9.7	9.7	10.1
82.5°	5.5	6.6	6.2	6.6	6.2	6.6	6.6
85°	3.8	4.2	3.5	4.2	3.8	3.8	4.5
87.5°	2.4	2.1	2.1	2.4	2.1	2.4	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)