

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: P245899

Luminaire Tested: **LSR8B15D010 EC8B15835 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245899
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 EC8B15835 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1180.0 lumens
Efficiency: N/A
Efficacy: 81.9 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

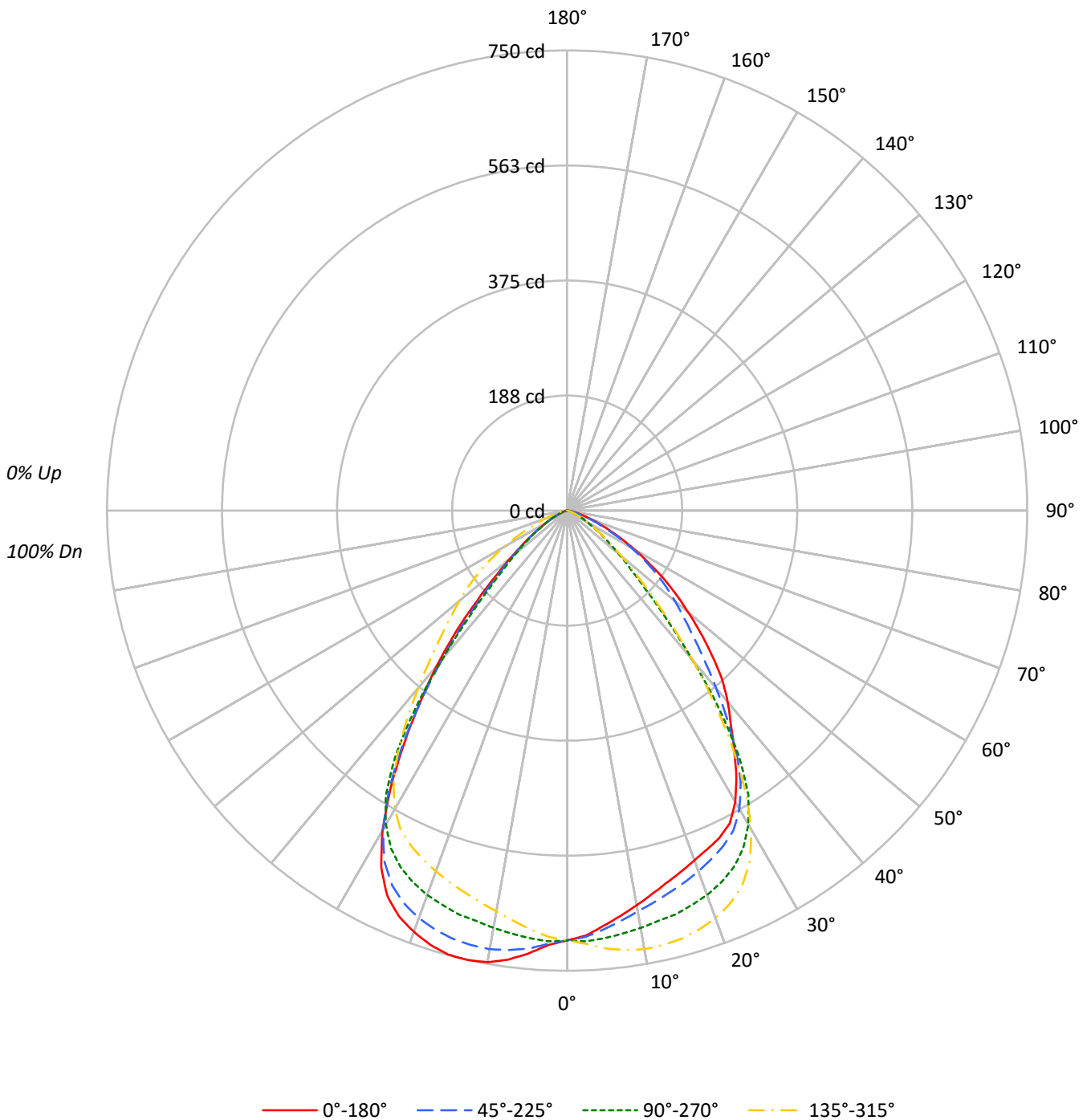
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21601	21601	21601	21601
5°	21027	21652	22426	21652
10°	20447	21624	23403	21624
15°	20039	21753	23914	21753
20°	19902	21878	23975	21878
25°	20006	21833	23589	21833
30°	19512	21033	21410	21033
35°	17847	18348	17410	18348
40°	16383	12765	13328	12765
45°	14557	7789	9010	7789
50°	12324	5200	5776	5200
55°	10204	3548	3753	3548
60°	7783	2362	2381	2362
65°	5516	1474	1350	1474
70°	3976	983	893	983
75°	2526	488	405	488
80°	1758	373	302	373
85°	1557	0	106	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	5.7
10°-20°	193.1	16.4
20°-30°	292.4	24.8
30°-40°	293.0	24.8
40°-50°	184.0	15.6
50°-60°	98.1	8.3
60°-70°	40.3	3.4
70°-80°	10.7	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°	552.1	46.8
0°-40°	845.2	71.6
0°-60°	1127.2	95.5
0°-90°	1180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1180.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	700	700	700	700	700	
5°	679	700	724	700	679	64
15°	628	681	749	681	628	178
25°	588	642	693	642	588	270
35°	474	487	462	487	474	297
45°	334	179	207	179	334	257
55°	190	66	70	66	190	169
65°	76	20	18	20	76	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°	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5
2.5°	693.3	692.7	692.3	693.0	693.3	694.7	694.4	695.1	695.1	695.4	696.1
5°	679.3	679.0	679.3	679.3	680.7	682.1	681.7	682.7	683.4	685.1	685.8
7.5°	666.3	666.3	666.0	667.3	668.0	670.1	669.7	671.5	672.5	674.2	676.6
10°	653.0	653.0	653.3	654.3	654.7	657.8	657.8	660.2	661.5	663.2	666.3
12.5°	640.0	640.0	642.0	641.4	642.7	645.1	646.1	648.5	650.6	654.0	657.1
15°	627.7	627.7	628.4	630.1	631.1	634.2	635.9	638.6	641.0	644.4	648.9
17.5°	617.1	616.7	617.1	619.1	621.2	623.9	625.3	628.7	631.1	635.5	639.6
20°	606.5	607.2	607.2	608.9	610.2	613.6	615.0	618.8	621.5	625.6	630.4
22.5°	597.2	596.9	596.9	599.3	600.3	603.4	604.7	608.2	611.3	614.7	619.1
25°	588.0	587.3	588.7	589.0	589.7	593.1	594.1	596.5	599.6	602.7	607.2
27.5°	574.3	573.6	574.0	575.3	576.4	579.1	579.8	582.2	584.6	587.3	591.1
30°	548.0	547.3	547.0	549.3	550.4	552.4	553.4	557.6	558.2	561.3	564.0
32.5°	513.1	512.7	513.4	515.5	516.5	519.2	520.6	523.0	524.7	526.4	529.2
35°	474.1	473.4	474.1	476.1	476.1	478.5	479.6	480.6	480.2	480.6	479.9
37.5°	437.8	437.5	437.8	438.9	437.8	438.9	437.8	435.8	432.0	427.9	423.8
40°	407.0	407.4	405.3	406.7	402.9	402.3	398.5	393.4	385.8	377.6	366.0
42.5°	374.2	373.2	371.8	372.5	369.4	367.0	360.9	354.4	344.8	331.1	317.1
45°	333.8	333.5	332.8	332.5	330.4	328.0	322.9	315.4	304.8	290.8	274.0
47.5°	294.5	293.5	293.5	293.8	291.4	291.1	287.0	280.5	271.3	257.6	240.1
50°	256.9	256.5	257.2	258.6	256.9	256.2	253.5	249.0	240.8	229.2	212.8
52.5°	223.0	222.7	223.4	225.1	224.4	225.1	222.3	218.9	213.4	202.2	187.8
55°	189.8	189.8	189.8	191.9	191.9	191.9	190.5	188.5	183.3	175.1	161.8
57.5°	155.3	155.6	157.7	158.0	157.7	158.4	158.0	156.0	152.6	146.7	136.5
60°	126.2	126.2	127.2	128.3	127.9	128.3	128.3	127.2	123.8	119.0	110.8
62.5°	99.9	100.9	100.2	100.9	102.3	100.9	100.2	99.5	97.1	94.1	87.2
65°	75.6	76.3	76.3	76.6	75.9	76.3	74.9	73.9	72.5	69.1	64.7
67.5°	57.5	57.5	57.5	57.5	57.1	56.8	56.4	55.4	53.0	51.7	46.9
70°	44.1	42.1	42.1	42.1	42.1	42.4	41.4	40.0	39.3	36.9	33.5
72.5°	29.4	30.1	29.4	29.4	28.7	29.1	27.7	27.0	26.3	25.0	22.9
75°	21.2	19.5	20.2	20.5	19.5	20.2	18.8	17.4	17.4	16.4	15.4
77.5°	13.7	13.3	13.7	14.0	13.7	13.3	12.7	12.0	12.0	11.6	10.6
80°	9.9	9.6	9.6	9.6	9.2	9.6	8.9	8.9	8.2	7.9	7.2
82.5°	6.5	6.5	6.2	6.5	6.2	6.5	5.5	5.5	5.5	5.1	4.4
85°	4.4	3.8	3.8	4.1	3.4	4.1	3.8	3.4	3.1	3.1	2.7
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°	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5
2.5°	697.1	697.4	697.4	698.8	699.5	699.8	699.8	702.6	701.6	702.2	702.9
5°	687.2	689.2	689.9	689.9	693.7	695.1	696.4	699.5	699.8	701.9	704.3
7.5°	677.6	680.0	681.4	684.5	686.8	689.2	693.3	695.4	697.4	700.2	703.3
10°	668.4	671.1	673.8	676.2	680.0	683.1	685.8	690.6	693.0	696.8	700.9
12.5°	659.5	663.2	665.6	669.7	673.8	676.6	680.7	685.1	688.9	692.7	697.4
15°	651.6	656.1	658.8	663.2	667.7	671.5	675.9	681.4	684.1	688.6	693.0
17.5°	643.1	647.9	651.3	655.4	660.9	665.0	668.7	674.2	677.6	682.4	687.5
20°	634.2	639.0	643.1	647.2	652.6	656.7	661.2	666.7	670.4	675.2	679.3
22.5°	623.6	628.0	632.5	637.2	642.7	646.1	651.3	656.1	660.2	664.6	668.7
25°	609.9	615.4	618.8	623.2	627.7	631.4	636.9	641.7	645.1	649.2	653.0
27.5°	593.8	597.9	600.7	604.4	608.9	612.3	616.4	621.2	624.6	628.4	631.1
30°	566.4	570.2	572.6	575.3	579.8	582.9	586.3	590.7	593.1	595.9	598.3
32.5°	530.5	533.6	535.0	537.0	540.1	543.2	545.9	549.7	550.7	552.4	552.4
35°	478.5	479.2	478.9	479.6	480.9	482.6	485.0	487.4	488.8	488.8	487.8
37.5°	417.6	413.6	409.1	405.7	404.7	404.0	405.3	406.4	407.7	408.4	406.7
40°	354.4	345.1	335.2	326.3	320.2	317.4	316.4	317.1	317.1	319.5	319.5
42.5°	300.0	285.6	270.9	257.6	248.7	241.8	238.8	238.8	239.1	240.8	241.8
45°	254.8	236.7	219.6	204.9	192.6	183.7	179.6	178.6	178.2	178.9	181.3
47.5°	220.3	201.5	183.7	165.6	152.6	143.7	139.9	138.5	137.2	138.5	138.9
50°	193.3	173.8	155.0	136.8	123.1	115.3	110.5	108.4	108.1	108.1	108.8
52.5°	168.6	150.5	131.7	113.2	98.9	91.3	86.9	85.9	84.5	85.9	85.9
55°	145.4	127.2	108.8	91.3	79.4	71.5	67.4	66.0	65.3	66.4	66.4
57.5°	120.1	104.7	87.6	71.8	59.9	54.4	51.3	49.6	49.2	49.9	49.2
60°	98.5	85.5	70.8	56.4	47.2	41.4	39.0	38.3	37.6	38.3	38.3
62.5°	78.0	67.0	55.1	44.1	36.3	32.2	29.4	29.4	29.1	29.1	29.4
65°	57.8	49.2	40.7	31.5	25.3	22.2	20.2	20.2	19.8	20.2	19.8
67.5°	42.1	36.3	29.4	22.9	18.1	16.4	15.1	14.0	14.7	14.0	13.7
70°	30.8	26.0	21.2	17.4	14.0	12.3	11.3	10.9	10.3	10.3	10.3
72.5°	20.5	17.4	14.4	11.3	9.2	7.5	7.2	6.5	5.8	6.2	6.8
75°	13.7	11.6	10.3	8.2	6.2	6.2	4.1	4.1	3.4	4.1	3.1
77.5°	9.6	7.9	6.2	5.1	4.1	3.8	2.7	2.7	2.4	2.4	2.4
80°	6.8	5.8	4.4	3.8	2.7	2.7	2.4	2.1	1.7	1.7	2.1
82.5°	4.1	3.1	3.1	2.7	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°	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5
2.5°	704.6	704.3	705.0	705.0	707.0	706.7	707.7	707.7	707.0	707.4	708.7
5°	707.0	708.1	710.1	711.8	714.9	716.3	718.0	719.7	720.0	721.1	722.1
7.5°	707.0	710.5	712.8	715.9	720.0	722.4	726.2	729.3	730.6	732.3	734.4
10°	705.7	709.1	713.5	716.9	722.1	725.8	729.6	734.4	736.4	739.2	741.9
12.5°	702.9	706.7	711.5	715.9	721.7	725.2	729.9	734.4	737.5	741.2	744.3
15°	698.8	703.3	707.7	712.2	718.3	722.4	726.9	732.0	735.1	739.2	741.9
17.5°	692.3	697.1	701.2	705.3	711.1	715.9	720.0	724.8	727.9	731.3	735.1
20°	684.5	688.9	693.3	696.8	702.6	706.7	711.1	715.6	718.0	718.7	724.5
22.5°	674.5	677.6	681.0	686.5	689.9	693.7	697.8	701.9	704.3	708.1	710.1
25°	658.1	661.2	665.0	667.3	671.5	674.5	678.6	683.1	684.5	687.2	689.2
27.5°	635.2	636.9	638.6	640.7	643.1	644.8	647.2	649.2	650.6	652.0	653.3
30°	598.9	598.9	598.9	597.6	598.6	599.6	600.0	599.6	599.6	599.3	599.3
32.5°	551.0	548.3	545.2	542.5	541.5	540.1	539.4	538.4	536.7	535.7	536.0
35°	486.4	480.2	476.5	473.1	470.3	468.3	467.2	466.2	465.9	464.5	463.1
37.5°	405.7	401.2	398.5	396.4	394.1	392.0	392.3	392.7	393.7	393.0	393.4
40°	320.2	319.1	320.2	317.8	317.1	317.8	319.5	321.9	323.2	324.6	327.0
42.5°	243.5	245.2	247.7	247.7	248.7	250.0	252.1	255.9	257.9	260.3	263.0
45°	183.3	185.4	188.5	189.5	190.2	191.9	194.3	197.4	198.7	200.8	203.2
47.5°	141.3	142.6	144.3	146.1	147.8	148.5	150.8	150.8	152.6	153.9	154.6
50°	110.1	111.5	112.9	113.9	114.6	115.6	116.3	117.3	117.7	118.4	118.7
52.5°	86.2	87.9	87.9	88.6	89.6	90.6	90.3	90.6	91.0	91.0	92.0
55°	67.4	67.4	68.4	68.4	69.1	68.7	69.1	69.1	69.1	69.1	69.4
57.5°	50.3	50.6	51.7	51.0	50.6	51.3	50.6	51.3	51.0	51.7	50.6
60°	38.6	38.6	39.0	39.0	39.3	39.3	39.3	39.0	39.0	38.6	38.6
62.5°	29.1	29.4	29.8	29.4	29.4	29.4	29.1	29.1	28.7	28.4	28.4
65°	19.5	19.2	19.8	19.2	19.5	19.5	19.2	19.5	18.5	18.8	18.5
67.5°	14.0	13.7	13.3	13.7	13.3	13.0	13.0	13.3	13.7	12.7	12.7
70°	9.2	9.6	9.2	9.6	9.9	9.9	9.6	9.2	9.6	8.9	9.2
72.5°	5.8	5.8	5.8	5.8	5.8	6.2	6.2	6.2	5.5	5.5	5.1
75°	2.7	3.8	3.1	2.7	3.8	3.8	3.4	3.4	3.1	3.1	3.1
77.5°	2.7	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°	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5
2.5°	708.4	708.1	708.4	708.7	708.4	708.1	708.4	708.7	707.4	707.0	707.7
5°	723.4	723.4	724.1	724.5	724.1	723.4	723.4	722.1	721.1	720.0	719.7
7.5°	736.4	737.1	737.8	738.1	737.8	737.1	736.4	734.4	732.3	730.6	729.3
10°	744.3	745.3	746.7	747.4	746.7	745.3	744.3	741.9	739.2	736.4	734.4
12.5°	747.7	748.8	750.5	750.1	750.5	748.8	747.7	744.3	741.2	737.5	734.4
15°	745.3	746.7	748.4	749.1	748.4	746.7	745.3	741.9	739.2	735.1	732.0
17.5°	737.8	739.9	740.9	741.9	740.9	739.9	737.8	735.1	731.3	727.9	724.8
20°	727.5	728.9	730.3	730.6	730.3	728.9	727.5	724.5	718.7	718.0	715.6
22.5°	712.8	713.9	716.9	715.9	716.9	713.9	712.8	710.1	708.1	704.3	701.9
25°	691.6	692.7	693.0	693.3	693.0	692.7	691.6	689.2	687.2	684.5	683.1
27.5°	655.0	655.0	655.7	656.1	655.7	655.0	655.0	653.3	652.0	650.6	649.2
30°	599.6	599.6	599.6	601.3	599.6	599.6	599.6	599.3	599.3	599.6	599.6
32.5°	535.7	535.0	534.3	535.0	534.3	535.0	535.7	536.0	535.7	536.7	538.4
35°	463.1	462.8	463.8	462.5	463.8	462.8	463.1	463.1	464.5	465.9	466.2
37.5°	393.7	393.0	394.4	393.0	394.4	393.0	393.7	393.4	393.0	393.7	392.7
40°	327.7	328.4	328.4	331.1	328.4	328.4	327.7	327.0	324.6	323.2	321.9
42.5°	264.4	266.5	265.8	267.8	265.8	266.5	264.4	263.0	260.3	257.9	255.9
45°	204.5	205.9	205.9	206.6	205.9	205.9	204.5	203.2	200.8	198.7	197.4
47.5°	157.0	157.0	157.0	157.4	157.0	157.0	157.0	154.6	153.9	152.6	150.8
50°	119.4	119.7	120.1	120.4	120.1	119.7	119.4	118.7	118.4	117.7	117.3
52.5°	91.7	92.0	91.3	92.0	91.3	92.0	91.7	92.0	91.0	91.0	90.6
55°	69.4	69.1	69.4	69.8	69.4	69.1	69.4	69.4	69.1	69.1	69.1
57.5°	51.0	50.3	50.3	50.3	50.3	50.3	51.0	50.6	51.7	51.0	51.3
60°	38.0	38.3	38.3	38.6	38.3	38.3	38.0	38.6	38.6	39.0	39.0
62.5°	28.0	29.1	28.4	29.1	28.4	29.1	28.0	28.4	28.4	28.7	29.1
65°	18.1	18.1	18.1	18.5	18.1	18.1	18.1	18.5	18.8	18.5	19.5
67.5°	12.3	12.7	13.3	13.0	13.3	12.7	12.3	12.7	12.7	13.7	13.3
70°	9.9	8.9	8.9	9.9	8.9	8.9	9.9	9.2	8.9	9.6	9.2
72.5°	5.8	5.1	5.8	5.8	5.8	5.1	5.8	5.1	5.5	5.5	6.2
75°	3.1	2.7	2.4	3.4	2.4	2.7	3.1	3.1	3.1	3.1	3.4
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°	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5
2.5°	707.7	706.7	707.0	705.0	705.0	704.3	704.6	702.9	702.2	701.6	702.6
5°	718.0	716.3	714.9	711.8	710.1	708.1	707.0	704.3	701.9	699.8	699.5
7.5°	726.2	722.4	720.0	715.9	712.8	710.5	707.0	703.3	700.2	697.4	695.4
10°	729.6	725.8	722.1	716.9	713.5	709.1	705.7	700.9	696.8	693.0	690.6
12.5°	729.9	725.2	721.7	715.9	711.5	706.7	702.9	697.4	692.7	688.9	685.1
15°	726.9	722.4	718.3	712.2	707.7	703.3	698.8	693.0	688.6	684.1	681.4
17.5°	720.0	715.9	711.1	705.3	701.2	697.1	692.3	687.5	682.4	677.6	674.2
20°	711.1	706.7	702.6	696.8	693.3	688.9	684.5	679.3	675.2	670.4	666.7
22.5°	697.8	693.7	689.9	686.5	681.0	677.6	674.5	668.7	664.6	660.2	656.1
25°	678.6	674.5	671.5	667.3	665.0	661.2	658.1	653.0	649.2	645.1	641.7
27.5°	647.2	644.8	643.1	640.7	638.6	636.9	635.2	631.1	628.4	624.6	621.2
30°	600.0	599.6	598.6	597.6	598.9	598.9	598.9	598.3	595.9	593.1	590.7
32.5°	539.4	540.1	541.5	542.5	545.2	548.3	551.0	552.4	552.4	550.7	549.7
35°	467.2	468.3	470.3	473.1	476.5	480.2	486.4	487.8	488.8	488.8	487.4
37.5°	392.3	392.0	394.1	396.4	398.5	401.2	405.7	406.7	408.4	407.7	406.4
40°	319.5	317.8	317.1	317.8	320.2	319.1	320.2	319.5	319.5	317.1	317.1
42.5°	252.1	250.0	248.7	247.7	247.7	245.2	243.5	241.8	240.8	239.1	238.8
45°	194.3	191.9	190.2	189.5	188.5	185.4	183.3	181.3	178.9	178.2	178.6
47.5°	150.8	148.5	147.8	146.1	144.3	142.6	141.3	138.9	138.5	137.2	138.5
50°	116.3	115.6	114.6	113.9	112.9	111.5	110.1	108.8	108.1	108.1	108.4
52.5°	90.3	90.6	89.6	88.6	87.9	87.9	86.2	85.9	85.9	84.5	85.9
55°	69.1	68.7	69.1	68.4	68.4	67.4	67.4	66.4	66.4	65.3	66.0
57.5°	50.6	51.3	50.6	51.0	51.7	50.6	50.3	49.2	49.9	49.2	49.6
60°	39.3	39.3	39.3	39.0	39.0	38.6	38.6	38.3	38.3	37.6	38.3
62.5°	29.1	29.4	29.4	29.4	29.8	29.4	29.1	29.4	29.1	29.1	29.4
65°	19.2	19.5	19.5	19.2	19.8	19.2	19.5	19.8	20.2	19.8	20.2
67.5°	13.0	13.0	13.3	13.7	13.3	13.7	14.0	13.7	14.0	14.7	14.0
70°	9.6	9.9	9.9	9.6	9.2	9.6	9.2	10.3	10.3	10.3	10.9
72.5°	6.2	6.2	5.8	5.8	5.8	5.8	5.8	6.8	6.2	5.8	6.5
75°	3.4	3.8	3.8	2.7	3.1	3.8	2.7	3.1	4.1	3.4	4.1
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	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	2.1	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°	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5	700.5
2.5°	699.8	699.8	699.5	698.8	697.4	697.4	697.1	696.1	695.4	695.1	695.1
5°	696.4	695.1	693.7	689.9	689.9	689.2	687.2	685.8	685.1	683.4	682.7
7.5°	693.3	689.2	686.8	684.5	681.4	680.0	677.6	676.6	674.2	672.5	671.5
10°	685.8	683.1	680.0	676.2	673.8	671.1	668.4	666.3	663.2	661.5	660.2
12.5°	680.7	676.6	673.8	669.7	665.6	663.2	659.5	657.1	654.0	650.6	648.5
15°	675.9	671.5	667.7	663.2	658.8	656.1	651.6	648.9	644.4	641.0	638.6
17.5°	668.7	665.0	660.9	655.4	651.3	647.9	643.1	639.6	635.5	631.1	628.7
20°	661.2	656.7	652.6	647.2	643.1	639.0	634.2	630.4	625.6	621.5	618.8
22.5°	651.3	646.1	642.7	637.2	632.5	628.0	623.6	619.1	614.7	611.3	608.2
25°	636.9	631.4	627.7	623.2	618.8	615.4	609.9	607.2	602.7	599.6	596.5
27.5°	616.4	612.3	608.9	604.4	600.7	597.9	593.8	591.1	587.3	584.6	582.2
30°	586.3	582.9	579.8	575.3	572.6	570.2	566.4	564.0	561.3	558.2	557.6
32.5°	545.9	543.2	540.1	537.0	535.0	533.6	530.5	529.2	526.4	524.7	523.0
35°	485.0	482.6	480.9	479.6	478.9	479.2	478.5	479.9	480.6	480.2	480.6
37.5°	405.3	404.0	404.7	405.7	409.1	413.6	417.6	423.8	427.9	432.0	435.8
40°	316.4	317.4	320.2	326.3	335.2	345.1	354.4	366.0	377.6	385.8	393.4
42.5°	238.8	241.8	248.7	257.6	270.9	285.6	300.0	317.1	331.1	344.8	354.4
45°	179.6	183.7	192.6	204.9	219.6	236.7	254.8	274.0	290.8	304.8	315.4
47.5°	139.9	143.7	152.6	165.6	183.7	201.5	220.3	240.1	257.6	271.3	280.5
50°	110.5	115.3	123.1	136.8	155.0	173.8	193.3	212.8	229.2	240.8	249.0
52.5°	86.9	91.3	98.9	113.2	131.7	150.5	168.6	187.8	202.2	213.4	218.9
55°	67.4	71.5	79.4	91.3	108.8	127.2	145.4	161.8	175.1	183.3	188.5
57.5°	51.3	54.4	59.9	71.8	87.6	104.7	120.1	136.5	146.7	152.6	156.0
60°	39.0	41.4	47.2	56.4	70.8	85.5	98.5	110.8	119.0	123.8	127.2
62.5°	29.4	32.2	36.3	44.1	55.1	67.0	78.0	87.2	94.1	97.1	99.5
65°	20.2	22.2	25.3	31.5	40.7	49.2	57.8	64.7	69.1	72.5	73.9
67.5°	15.1	16.4	18.1	22.9	29.4	36.3	42.1	46.9	51.7	53.0	55.4
70°	11.3	12.3	14.0	17.4	21.2	26.0	30.8	33.5	36.9	39.3	40.0
72.5°	7.2	7.5	9.2	11.3	14.4	17.4	20.5	22.9	25.0	26.3	27.0
75°	4.1	6.2	6.2	8.2	10.3	11.6	13.7	15.4	16.4	17.4	17.4
77.5°	2.7	3.8	4.1	5.1	6.2	7.9	9.6	10.6	11.6	12.0	12.0
80°	2.4	2.7	2.7	3.8	4.4	5.8	6.8	7.2	7.9	8.2	8.9
82.5°	1.0	1.4	1.7	2.7	3.1	3.1	4.1	4.4	5.1	5.5	5.5
85°	0.3	0.7	0.7	1.0	1.7	2.1	2.4	2.7	3.1	3.1	3.4
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: P245899

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	700.5	700.5	700.5	700.5	700.5	700.5	700.5
2.5°	694.4	694.7	693.3	693.0	692.3	692.7	693.3
5°	681.7	682.1	680.7	679.3	679.3	679.0	679.3
7.5°	669.7	670.1	668.0	667.3	666.0	666.3	666.3
10°	657.8	657.8	654.7	654.3	653.3	653.0	653.0
12.5°	646.1	645.1	642.7	641.4	642.0	640.0	640.0
15°	635.9	634.2	631.1	630.1	628.4	627.7	627.7
17.5°	625.3	623.9	621.2	619.1	617.1	616.7	617.1
20°	615.0	613.6	610.2	608.9	607.2	607.2	606.5
22.5°	604.7	603.4	600.3	599.3	596.9	596.9	597.2
25°	594.1	593.1	589.7	589.0	588.7	587.3	588.0
27.5°	579.8	579.1	576.4	575.3	574.0	573.6	574.3
30°	553.4	552.4	550.4	549.3	547.0	547.3	548.0
32.5°	520.6	519.2	516.5	515.5	513.4	512.7	513.1
35°	479.6	478.5	476.1	476.1	474.1	473.4	474.1
37.5°	437.8	438.9	437.8	438.9	437.8	437.5	437.8
40°	398.5	402.3	402.9	406.7	405.3	407.4	407.0
42.5°	360.9	367.0	369.4	372.5	371.8	373.2	374.2
45°	322.9	328.0	330.4	332.5	332.8	333.5	333.8
47.5°	287.0	291.1	291.4	293.8	293.5	293.5	294.5
50°	253.5	256.2	256.9	258.6	257.2	256.5	256.9
52.5°	222.3	225.1	224.4	225.1	223.4	222.7	223.0
55°	190.5	191.9	191.9	191.9	189.8	189.8	189.8
57.5°	158.0	158.4	157.7	158.0	157.7	155.6	155.3
60°	128.3	128.3	127.9	128.3	127.2	126.2	126.2
62.5°	100.2	100.9	102.3	100.9	100.2	100.9	99.9
65°	74.9	76.3	75.9	76.6	76.3	76.3	75.6
67.5°	56.4	56.8	57.1	57.5	57.5	57.5	57.5
70°	41.4	42.4	42.1	42.1	42.1	42.1	44.1
72.5°	27.7	29.1	28.7	29.4	29.4	30.1	29.4
75°	18.8	20.2	19.5	20.5	20.2	19.5	21.2
77.5°	12.7	13.3	13.7	14.0	13.7	13.3	13.7
80°	8.9	9.6	9.2	9.6	9.6	9.6	9.9
82.5°	5.5	6.5	6.2	6.5	6.2	6.5	6.5
85°	3.8	4.1	3.4	4.1	3.8	3.8	4.4
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)