

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: P244962

Luminaire Tested: **LSR8B10D010 EC8B10835 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244962
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: LSR8B10D010 EC8B10835 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1130.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

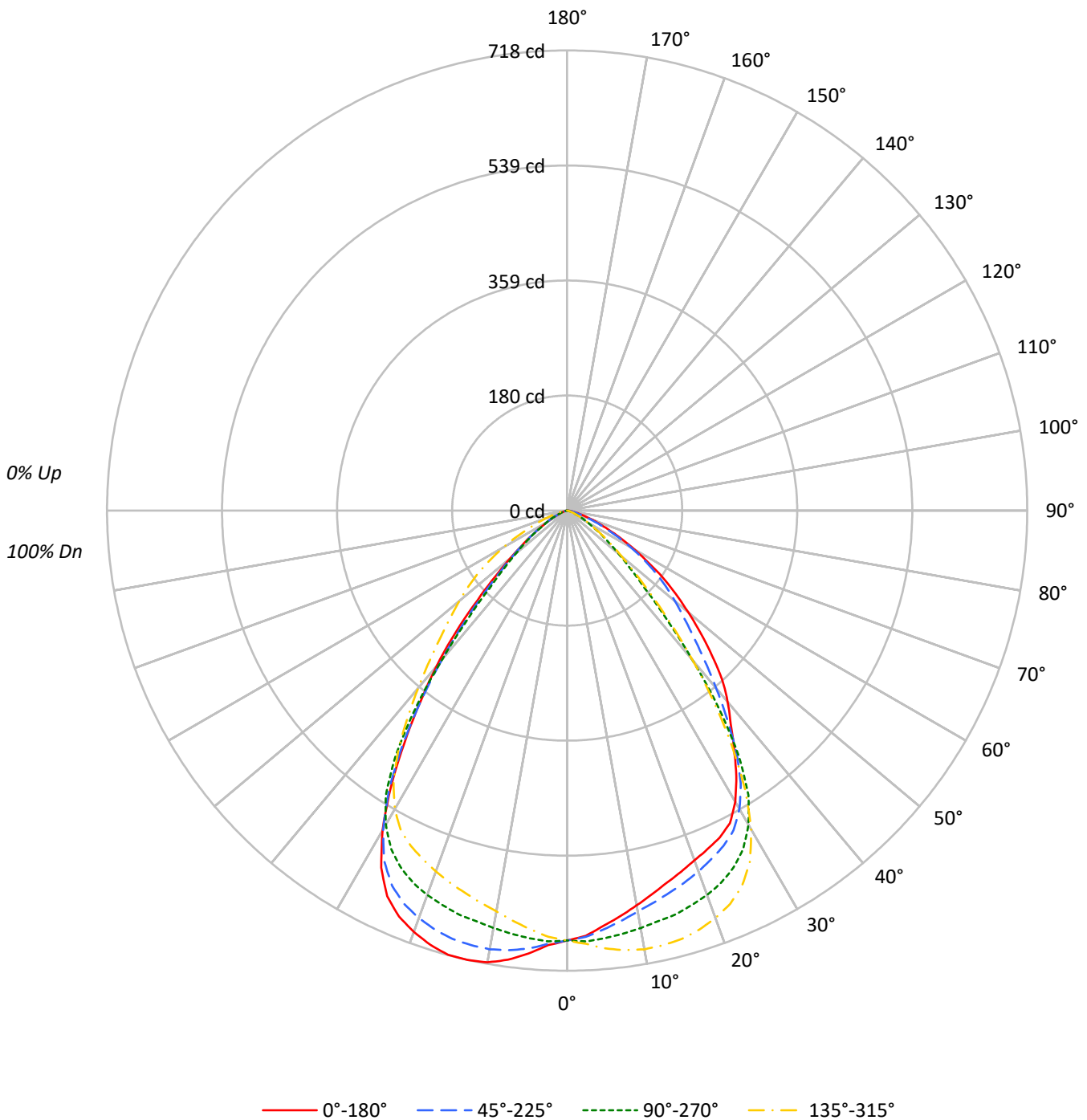
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20685	20685	20685	20685
5°	20136	20736	21476	20736
10°	19579	20707	22410	20707
15°	19190	20830	22902	20830
20°	19059	20949	22961	20949
25°	19159	20908	22592	20908
30°	18683	20143	20506	20143
35°	17090	17572	16673	17572
40°	15691	12221	12765	12221
45°	13942	7457	8626	7457
50°	11801	4980	5531	4980
55°	9774	3398	3591	3398
60°	7456	2263	2282	2263
65°	5283	1408	1291	1408
70°	3814	947	857	947
75°	2419	465	393	465
80°	1687	355	284	355
85°	1521	0	106	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	5.7
10°-20°	184.9	16.4
20°-30°	280.0	24.8
30°-40°	280.6	24.8
40°-50°	176.2	15.6
50°-60°	93.9	8.3
60°-70°	38.6	3.4
70°-80°	10.2	0.9
80°-90°	1.7	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°	528.7	46.8
0°-40°	809.3	71.6
0°-60°	1079.5	95.5
0°-90°	1130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1130.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	671	671	671	671	671	
5°	650	670	694	670	650	61
15°	601	652	717	652	601	170
25°	563	614	664	614	563	258
35°	454	467	443	467	454	284
45°	320	171	198	171	320	246
55°	182	63	67	63	182	162
65°	72	19	18	19	72	75
75°	20	4	3	4	20	23
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°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	664.0	663.3	663.0	663.6	664.0	665.3	665.0	665.6	665.6	665.9	666.6
5°	650.5	650.2	650.5	650.5	651.8	653.2	652.8	653.8	654.5	656.1	656.8
7.5°	638.1	638.1	637.8	639.1	639.7	641.7	641.4	643.0	644.0	645.6	647.9
10°	625.3	625.3	625.6	626.6	627.0	629.9	629.9	632.2	633.5	635.1	638.1
12.5°	612.9	612.9	614.8	614.2	615.5	617.8	618.8	621.1	623.0	626.3	629.3
15°	601.1	601.1	601.7	603.4	604.3	607.3	608.9	611.6	613.9	617.1	621.4
17.5°	590.9	590.6	590.9	592.9	594.9	597.5	598.8	602.1	604.3	608.6	612.5
20°	580.8	581.4	581.4	583.1	584.4	587.6	589.0	592.6	595.2	599.1	603.7
22.5°	571.9	571.6	571.6	573.9	574.9	577.8	579.1	582.4	585.4	588.6	592.9
25°	563.1	562.4	563.7	564.1	564.7	568.0	569.0	571.3	574.2	577.2	581.4
27.5°	550.0	549.3	549.6	551.0	551.9	554.6	555.2	557.5	559.8	562.4	566.0
30°	524.7	524.1	523.8	526.1	527.1	529.0	530.0	533.9	534.6	537.5	540.1
32.5°	491.3	491.0	491.7	493.6	494.6	497.2	498.5	500.8	502.5	504.1	506.7
35°	454.0	453.3	454.0	456.0	456.0	458.3	459.2	460.2	459.9	460.2	459.6
37.5°	419.3	418.9	419.3	420.3	419.3	420.3	419.3	417.3	413.7	409.8	405.8
40°	389.8	390.1	388.2	389.5	385.9	385.2	381.6	376.7	369.5	361.6	350.5
42.5°	358.4	357.4	356.1	356.7	353.8	351.5	345.6	339.4	330.2	317.1	303.6
45°	319.7	319.4	318.7	318.4	316.4	314.1	309.2	302.0	291.9	278.4	262.4
47.5°	282.0	281.0	281.0	281.4	279.1	278.8	274.8	268.6	259.8	246.7	229.9
50°	246.0	245.7	246.3	247.6	246.0	245.3	242.7	238.5	230.6	219.5	203.7
52.5°	213.6	213.2	213.9	215.5	214.9	215.5	212.9	209.6	204.4	193.6	179.8
55°	181.8	181.8	181.8	183.8	183.8	183.8	182.4	180.5	175.6	167.7	154.9
57.5°	148.7	149.0	151.0	151.3	151.0	151.7	151.3	149.4	146.1	140.5	130.7
60°	120.9	120.9	121.9	122.8	122.5	122.8	122.8	121.9	118.6	114.0	106.1
62.5°	95.6	96.6	96.0	96.6	97.9	96.6	96.0	95.3	93.0	90.1	83.5
65°	72.4	73.0	73.0	73.4	72.7	73.0	71.7	70.8	69.4	66.2	61.9
67.5°	55.0	55.0	55.0	55.0	54.7	54.4	54.1	53.1	50.8	49.5	44.9
70°	42.3	40.3	40.3	40.3	40.3	40.6	39.6	38.3	37.7	35.4	32.1
72.5°	28.2	28.8	28.2	28.2	27.5	27.8	26.5	25.9	25.2	23.9	21.9
75°	20.3	18.7	19.3	19.7	18.7	19.3	18.0	16.7	16.7	15.7	14.7
77.5°	13.1	12.8	13.1	13.4	13.1	12.8	12.1	11.5	11.5	11.1	10.2
80°	9.5	9.2	9.2	9.2	8.8	9.2	8.5	8.5	7.9	7.5	6.9
82.5°	6.2	6.2	5.9	6.2	5.9	6.2	5.2	5.2	5.2	4.9	4.3
85°	4.3	3.6	3.6	3.9	3.3	3.9	3.6	3.3	3.0	3.0	2.6
87.5°	2.0	2.3	2.0	2.3	2.0	2.0	2.3	2.0	2.0	1.3	1.3
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°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	667.6	667.9	667.9	669.2	669.9	670.2	670.2	672.8	671.8	672.5	673.1
5°	658.1	660.0	660.7	660.7	664.3	665.6	666.9	669.9	670.2	672.2	674.4
7.5°	648.9	651.2	652.5	655.4	657.7	660.0	664.0	665.9	667.9	670.5	673.5
10°	640.1	642.7	645.3	647.6	651.2	654.1	656.8	661.3	663.6	667.2	671.2
12.5°	631.5	635.1	637.4	641.4	645.3	647.9	651.8	656.1	659.7	663.3	667.9
15°	624.0	628.3	630.9	635.1	639.4	643.0	647.3	652.5	655.1	659.4	663.6
17.5°	615.8	620.4	623.7	627.6	632.9	636.8	640.4	645.6	648.9	653.5	658.4
20°	607.3	611.9	615.8	619.7	625.0	628.9	633.2	638.4	642.0	646.6	650.5
22.5°	597.1	601.4	605.7	610.2	615.5	618.8	623.7	628.3	632.2	636.5	640.4
25°	584.0	589.3	592.6	596.8	601.1	604.7	609.9	614.5	617.8	621.7	625.3
27.5°	568.6	572.6	575.2	578.8	583.1	586.3	590.3	594.9	598.1	601.7	604.3
30°	542.4	546.0	548.3	551.0	555.2	558.2	561.4	565.7	568.0	570.6	572.9
32.5°	508.0	511.0	512.3	514.3	517.2	520.2	522.8	526.4	527.4	529.0	529.0
35°	458.3	458.9	458.6	459.2	460.6	462.2	464.5	466.8	468.1	468.1	467.1
37.5°	400.0	396.0	391.8	388.5	387.5	386.8	388.2	389.1	390.5	391.1	389.5
40°	339.4	330.5	321.0	312.5	306.6	304.0	303.0	303.6	303.6	305.9	305.9
42.5°	287.3	273.5	259.4	246.7	238.1	231.6	228.6	228.6	229.0	230.6	231.6
45°	244.0	226.7	210.3	196.2	184.4	175.9	172.0	171.0	170.7	171.3	173.6
47.5°	211.0	192.9	175.9	158.5	146.1	137.6	134.0	132.7	131.3	132.7	133.0
50°	185.1	166.4	148.4	131.0	117.9	110.4	105.8	103.8	103.5	103.5	104.2
52.5°	161.5	144.1	126.1	108.4	94.7	87.5	83.2	82.2	80.9	82.2	82.2
55°	139.2	121.9	104.2	87.5	76.0	68.5	64.5	63.2	62.6	63.5	63.5
57.5°	115.0	100.2	83.9	68.8	57.3	52.1	49.1	47.5	47.2	47.8	47.2
60°	94.3	81.9	67.8	54.1	45.2	39.6	37.3	36.7	36.0	36.7	36.7
62.5°	74.7	64.2	52.7	42.3	34.7	30.8	28.2	28.2	27.8	27.8	28.2
65°	55.4	47.2	39.0	30.1	24.2	21.3	19.3	19.3	19.0	19.3	19.0
67.5°	40.3	34.7	28.2	21.9	17.4	15.7	14.4	13.4	14.1	13.4	13.1
70°	29.5	24.9	20.3	16.7	13.4	11.8	10.8	10.5	9.8	9.8	9.8
72.5°	19.7	16.7	13.8	10.8	8.8	7.2	6.9	6.2	5.6	5.9	6.6
75°	13.1	11.1	9.8	7.9	5.9	5.9	3.9	3.9	3.3	3.9	3.0
77.5°	9.2	7.5	5.9	4.9	3.9	3.6	2.6	2.6	2.3	2.3	2.3
80°	6.6	5.6	4.3	3.6	2.6	2.6	2.3	2.0	1.6	1.6	2.0
82.5°	3.9	3.0	3.0	2.6	1.6	1.3	1.0	1.3	0.7	0.7	0.7
85°	2.3	2.0	1.6	1.0	0.7	0.7	0.3	0.0	0.3	0.3	0.0
87.5°	1.3	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°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	674.8	674.4	675.1	675.1	677.1	676.7	677.7	677.7	677.1	677.4	678.7
5°	677.1	678.1	680.0	681.7	684.6	685.9	687.6	689.2	689.5	690.5	691.5
7.5°	677.1	680.4	682.6	685.6	689.5	691.8	695.4	698.4	699.7	701.3	703.3
10°	675.8	679.0	683.3	686.6	691.5	695.1	698.7	703.3	705.2	707.9	710.5
12.5°	673.1	676.7	681.3	685.6	691.2	694.4	699.0	703.3	706.2	709.8	712.8
15°	669.2	673.5	677.7	682.0	687.9	691.8	696.1	701.0	703.9	707.9	710.5
17.5°	663.0	667.6	671.5	675.4	681.0	685.6	689.5	694.1	697.1	700.3	703.9
20°	655.4	659.7	664.0	667.2	672.8	676.7	681.0	685.3	687.6	688.2	693.8
22.5°	646.0	648.9	652.2	657.4	660.7	664.3	668.2	672.2	674.4	678.1	680.0
25°	630.2	633.2	636.8	639.1	643.0	646.0	649.9	654.1	655.4	658.1	660.0
27.5°	608.3	609.9	611.6	613.5	615.8	617.5	619.7	621.7	623.0	624.3	625.6
30°	573.6	573.6	573.6	572.2	573.2	574.2	574.5	574.2	574.2	573.9	573.9
32.5°	527.7	525.1	522.1	519.5	518.5	517.2	516.6	515.6	513.9	513.0	513.3
35°	465.8	459.9	456.3	453.0	450.4	448.4	447.5	446.5	446.1	444.8	443.5
37.5°	388.5	384.2	381.6	379.6	377.4	375.4	375.7	376.0	377.0	376.4	376.7
40°	306.6	305.6	306.6	304.3	303.6	304.3	305.9	308.2	309.5	310.9	313.1
42.5°	233.2	234.9	237.2	237.2	238.1	239.5	241.4	245.0	247.0	249.3	251.9
45°	175.6	177.5	180.5	181.5	182.1	183.8	186.1	189.0	190.3	192.3	194.6
47.5°	135.3	136.6	138.2	139.9	141.5	142.2	144.5	144.5	146.1	147.4	148.1
50°	105.5	106.8	108.1	109.1	109.7	110.7	111.4	112.4	112.7	113.3	113.7
52.5°	82.5	84.2	84.2	84.8	85.8	86.8	86.5	86.8	87.1	87.1	88.1
55°	64.5	64.5	65.5	65.5	66.2	65.8	66.2	66.2	66.2	66.2	66.5
57.5°	48.1	48.5	49.5	48.8	48.5	49.1	48.5	49.1	48.8	49.5	48.5
60°	37.0	37.0	37.3	37.3	37.7	37.7	37.7	37.3	37.3	37.0	37.0
62.5°	27.8	28.2	28.5	28.2	28.2	28.2	27.8	27.8	27.5	27.2	27.2
65°	18.7	18.3	19.0	18.3	18.7	18.7	18.3	18.7	17.7	18.0	17.7
67.5°	13.4	13.1	12.8	13.1	12.8	12.4	12.4	12.8	13.1	12.1	12.1
70°	8.8	9.2	8.8	9.2	9.5	9.5	9.2	8.8	9.2	8.5	8.8
72.5°	5.6	5.6	5.6	5.6	5.6	5.9	5.9	5.9	5.2	5.2	4.9
75°	2.6	3.6	3.0	2.6	3.6	3.6	3.3	3.3	3.0	3.0	3.0
77.5°	2.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.6	2.0	1.6
80°	1.3	1.3	1.3	1.0	1.3	1.3	1.6	1.3	1.3	1.0	1.6
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°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	678.4	678.1	678.4	678.7	678.4	678.1	678.4	678.7	677.4	677.1	677.7
5°	692.8	692.8	693.4	693.8	693.4	692.8	692.8	691.5	690.5	689.5	689.2
7.5°	705.2	705.9	706.5	706.9	706.5	705.9	705.2	703.3	701.3	699.7	698.4
10°	712.8	713.8	715.1	715.7	715.1	713.8	712.8	710.5	707.9	705.2	703.3
12.5°	716.1	717.0	718.7	718.3	718.7	717.0	716.1	712.8	709.8	706.2	703.3
15°	713.8	715.1	716.7	717.4	716.7	715.1	713.8	710.5	707.9	703.9	701.0
17.5°	706.5	708.5	709.5	710.5	709.5	708.5	706.5	703.9	700.3	697.1	694.1
20°	696.7	698.0	699.3	699.7	699.3	698.0	696.7	693.8	688.2	687.6	685.3
22.5°	682.6	683.6	686.6	685.6	686.6	683.6	682.6	680.0	678.1	674.4	672.2
25°	662.3	663.3	663.6	664.0	663.6	663.3	662.3	660.0	658.1	655.4	654.1
27.5°	627.3	627.3	627.9	628.3	627.9	627.3	627.3	625.6	624.3	623.0	621.7
30°	574.2	574.2	574.2	575.9	574.2	574.2	574.2	573.9	573.9	574.2	574.2
32.5°	513.0	512.3	511.7	512.3	511.7	512.3	513.0	513.3	513.0	513.9	515.6
35°	443.5	443.2	444.2	442.9	444.2	443.2	443.5	443.5	444.8	446.1	446.5
37.5°	377.0	376.4	377.7	376.4	377.7	376.4	377.0	376.7	376.4	377.0	376.0
40°	313.8	314.5	314.5	317.1	314.5	314.5	313.8	313.1	310.9	309.5	308.2
42.5°	253.2	255.2	254.5	256.5	254.5	255.2	253.2	251.9	249.3	247.0	245.0
45°	195.9	197.2	197.2	197.8	197.2	197.2	195.9	194.6	192.3	190.3	189.0
47.5°	150.3	150.3	150.3	150.7	150.3	150.3	150.3	148.1	147.4	146.1	144.5
50°	114.3	114.6	115.0	115.3	115.0	114.6	114.3	113.7	113.3	112.7	112.4
52.5°	87.8	88.1	87.5	88.1	87.5	88.1	87.8	88.1	87.1	87.1	86.8
55°	66.5	66.2	66.5	66.8	66.5	66.2	66.5	66.5	66.2	66.2	66.2
57.5°	48.8	48.1	48.1	48.1	48.1	48.1	48.8	48.5	49.5	48.8	49.1
60°	36.4	36.7	36.7	37.0	36.7	36.7	36.4	37.0	37.0	37.3	37.3
62.5°	26.9	27.8	27.2	27.8	27.2	27.8	26.9	27.2	27.2	27.5	27.8
65°	17.4	17.4	17.4	17.7	17.4	17.4	17.4	17.7	18.0	17.7	18.7
67.5°	11.8	12.1	12.8	12.4	12.8	12.1	11.8	12.1	12.1	13.1	12.8
70°	9.5	8.5	8.5	9.5	8.5	8.5	9.5	8.8	8.5	9.2	8.8
72.5°	5.6	4.9	5.6	5.6	5.6	4.9	5.6	4.9	5.2	5.2	5.9
75°	3.0	2.6	2.3	3.3	2.3	2.6	3.0	3.0	3.0	3.0	3.3
77.5°	2.0	1.6	2.3	2.3	2.3	1.6	2.0	1.6	2.0	1.6	2.0
80°	1.0	1.3	1.0	1.6	1.0	1.3	1.0	1.6	1.0	1.3	1.3
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°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	677.7	676.7	677.1	675.1	675.1	674.4	674.8	673.1	672.5	671.8	672.8
5°	687.6	685.9	684.6	681.7	680.0	678.1	677.1	674.4	672.2	670.2	669.9
7.5°	695.4	691.8	689.5	685.6	682.6	680.4	677.1	673.5	670.5	667.9	665.9
10°	698.7	695.1	691.5	686.6	683.3	679.0	675.8	671.2	667.2	663.6	661.3
12.5°	699.0	694.4	691.2	685.6	681.3	676.7	673.1	667.9	663.3	659.7	656.1
15°	696.1	691.8	687.9	682.0	677.7	673.5	669.2	663.6	659.4	655.1	652.5
17.5°	689.5	685.6	681.0	675.4	671.5	667.6	663.0	658.4	653.5	648.9	645.6
20°	681.0	676.7	672.8	667.2	664.0	659.7	655.4	650.5	646.6	642.0	638.4
22.5°	668.2	664.3	660.7	657.4	652.2	648.9	646.0	640.4	636.5	632.2	628.3
25°	649.9	646.0	643.0	639.1	636.8	633.2	630.2	625.3	621.7	617.8	614.5
27.5°	619.7	617.5	615.8	613.5	611.6	609.9	608.3	604.3	601.7	598.1	594.9
30°	574.5	574.2	573.2	572.2	573.6	573.6	573.6	572.9	570.6	568.0	565.7
32.5°	516.6	517.2	518.5	519.5	522.1	525.1	527.7	529.0	529.0	527.4	526.4
35°	447.5	448.4	450.4	453.0	456.3	459.9	465.8	467.1	468.1	468.1	466.8
37.5°	375.7	375.4	377.4	379.6	381.6	384.2	388.5	389.5	391.1	390.5	389.1
40°	305.9	304.3	303.6	304.3	306.6	305.6	306.6	305.9	305.9	303.6	303.6
42.5°	241.4	239.5	238.1	237.2	237.2	234.9	233.2	231.6	230.6	229.0	228.6
45°	186.1	183.8	182.1	181.5	180.5	177.5	175.6	173.6	171.3	170.7	171.0
47.5°	144.5	142.2	141.5	139.9	138.2	136.6	135.3	133.0	132.7	131.3	132.7
50°	111.4	110.7	109.7	109.1	108.1	106.8	105.5	104.2	103.5	103.5	103.8
52.5°	86.5	86.8	85.8	84.8	84.2	84.2	82.5	82.2	82.2	80.9	82.2
55°	66.2	65.8	66.2	65.5	65.5	64.5	64.5	63.5	63.5	62.6	63.2
57.5°	48.5	49.1	48.5	48.8	49.5	48.5	48.1	47.2	47.8	47.2	47.5
60°	37.7	37.7	37.7	37.3	37.3	37.0	37.0	36.7	36.7	36.0	36.7
62.5°	27.8	28.2	28.2	28.2	28.5	28.2	27.8	28.2	27.8	27.8	28.2
65°	18.3	18.7	18.7	18.3	19.0	18.3	18.7	19.0	19.3	19.0	19.3
67.5°	12.4	12.4	12.8	13.1	12.8	13.1	13.4	13.1	13.4	14.1	13.4
70°	9.2	9.5	9.5	9.2	8.8	9.2	8.8	9.8	9.8	9.8	10.5
72.5°	5.9	5.9	5.6	5.6	5.6	5.6	5.6	6.6	5.9	5.6	6.2
75°	3.3	3.6	3.6	2.6	3.0	3.6	2.6	3.0	3.9	3.3	3.9
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.6	2.3	2.3	2.3	2.6
80°	1.6	1.3	1.3	1.0	1.3	1.3	1.3	2.0	1.6	1.6	2.0
82.5°	0.7	0.7	0.3	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.3
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°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	670.2	670.2	669.9	669.2	667.9	667.9	667.6	666.6	665.9	665.6	665.6
5°	666.9	665.6	664.3	660.7	660.7	660.0	658.1	656.8	656.1	654.5	653.8
7.5°	664.0	660.0	657.7	655.4	652.5	651.2	648.9	647.9	645.6	644.0	643.0
10°	656.8	654.1	651.2	647.6	645.3	642.7	640.1	638.1	635.1	633.5	632.2
12.5°	651.8	647.9	645.3	641.4	637.4	635.1	631.5	629.3	626.3	623.0	621.1
15°	647.3	643.0	639.4	635.1	630.9	628.3	624.0	621.4	617.1	613.9	611.6
17.5°	640.4	636.8	632.9	627.6	623.7	620.4	615.8	612.5	608.6	604.3	602.1
20°	633.2	628.9	625.0	619.7	615.8	611.9	607.3	603.7	599.1	595.2	592.6
22.5°	623.7	618.8	615.5	610.2	605.7	601.4	597.1	592.9	588.6	585.4	582.4
25°	609.9	604.7	601.1	596.8	592.6	589.3	584.0	581.4	577.2	574.2	571.3
27.5°	590.3	586.3	583.1	578.8	575.2	572.6	568.6	566.0	562.4	559.8	557.5
30°	561.4	558.2	555.2	551.0	548.3	546.0	542.4	540.1	537.5	534.6	533.9
32.5°	522.8	520.2	517.2	514.3	512.3	511.0	508.0	506.7	504.1	502.5	500.8
35°	464.5	462.2	460.6	459.2	458.6	458.9	458.3	459.6	460.2	459.9	460.2
37.5°	388.2	386.8	387.5	388.5	391.8	396.0	400.0	405.8	409.8	413.7	417.3
40°	303.0	304.0	306.6	312.5	321.0	330.5	339.4	350.5	361.6	369.5	376.7
42.5°	228.6	231.6	238.1	246.7	259.4	273.5	287.3	303.6	317.1	330.2	339.4
45°	172.0	175.9	184.4	196.2	210.3	226.7	244.0	262.4	278.4	291.9	302.0
47.5°	134.0	137.6	146.1	158.5	175.9	192.9	211.0	229.9	246.7	259.8	268.6
50°	105.8	110.4	117.9	131.0	148.4	166.4	185.1	203.7	219.5	230.6	238.5
52.5°	83.2	87.5	94.7	108.4	126.1	144.1	161.5	179.8	193.6	204.4	209.6
55°	64.5	68.5	76.0	87.5	104.2	121.9	139.2	154.9	167.7	175.6	180.5
57.5°	49.1	52.1	57.3	68.8	83.9	100.2	115.0	130.7	140.5	146.1	149.4
60°	37.3	39.6	45.2	54.1	67.8	81.9	94.3	106.1	114.0	118.6	121.9
62.5°	28.2	30.8	34.7	42.3	52.7	64.2	74.7	83.5	90.1	93.0	95.3
65°	19.3	21.3	24.2	30.1	39.0	47.2	55.4	61.9	66.2	69.4	70.8
67.5°	14.4	15.7	17.4	21.9	28.2	34.7	40.3	44.9	49.5	50.8	53.1
70°	10.8	11.8	13.4	16.7	20.3	24.9	29.5	32.1	35.4	37.7	38.3
72.5°	6.9	7.2	8.8	10.8	13.8	16.7	19.7	21.9	23.9	25.2	25.9
75°	3.9	5.9	5.9	7.9	9.8	11.1	13.1	14.7	15.7	16.7	16.7
77.5°	2.6	3.6	3.9	4.9	5.9	7.5	9.2	10.2	11.1	11.5	11.5
80°	2.3	2.6	2.6	3.6	4.3	5.6	6.6	6.9	7.5	7.9	8.5
82.5°	1.0	1.3	1.6	2.6	3.0	3.0	3.9	4.3	4.9	5.2	5.2
85°	0.3	0.7	0.7	1.0	1.6	2.0	2.3	2.6	3.0	3.0	3.3
87.5°	0.3	0.3	0.0	0.3	0.7	0.7	1.3	1.3	1.3	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: P244962

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	665.0	665.3	664.0	663.6	663.0	663.3	664.0
5°	652.8	653.2	651.8	650.5	650.5	650.2	650.5
7.5°	641.4	641.7	639.7	639.1	637.8	638.1	638.1
10°	629.9	629.9	627.0	626.6	625.6	625.3	625.3
12.5°	618.8	617.8	615.5	614.2	614.8	612.9	612.9
15°	608.9	607.3	604.3	603.4	601.7	601.1	601.1
17.5°	598.8	597.5	594.9	592.9	590.9	590.6	590.9
20°	589.0	587.6	584.4	583.1	581.4	581.4	580.8
22.5°	579.1	577.8	574.9	573.9	571.6	571.6	571.9
25°	569.0	568.0	564.7	564.1	563.7	562.4	563.1
27.5°	555.2	554.6	551.9	551.0	549.6	549.3	550.0
30°	530.0	529.0	527.1	526.1	523.8	524.1	524.7
32.5°	498.5	497.2	494.6	493.6	491.7	491.0	491.3
35°	459.2	458.3	456.0	456.0	454.0	453.3	454.0
37.5°	419.3	420.3	419.3	420.3	419.3	418.9	419.3
40°	381.6	385.2	385.9	389.5	388.2	390.1	389.8
42.5°	345.6	351.5	353.8	356.7	356.1	357.4	358.4
45°	309.2	314.1	316.4	318.4	318.7	319.4	319.7
47.5°	274.8	278.8	279.1	281.4	281.0	281.0	282.0
50°	242.7	245.3	246.0	247.6	246.3	245.7	246.0
52.5°	212.9	215.5	214.9	215.5	213.9	213.2	213.6
55°	182.4	183.8	183.8	183.8	181.8	181.8	181.8
57.5°	151.3	151.7	151.0	151.3	151.0	149.0	148.7
60°	122.8	122.8	122.5	122.8	121.9	120.9	120.9
62.5°	96.0	96.6	97.9	96.6	96.0	96.6	95.6
65°	71.7	73.0	72.7	73.4	73.0	73.0	72.4
67.5°	54.1	54.4	54.7	55.0	55.0	55.0	55.0
70°	39.6	40.6	40.3	40.3	40.3	40.3	42.3
72.5°	26.5	27.8	27.5	28.2	28.2	28.8	28.2
75°	18.0	19.3	18.7	19.7	19.3	18.7	20.3
77.5°	12.1	12.8	13.1	13.4	13.1	12.8	13.1
80°	8.5	9.2	8.8	9.2	9.2	9.2	9.5
82.5°	5.2	6.2	5.9	6.2	5.9	6.2	6.2
85°	3.6	3.9	3.3	3.9	3.6	3.6	4.3
87.5°	2.3	2.0	2.0	2.3	2.0	2.3	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)