

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: P245869

Luminaire Tested: **LSR8B15D010 EC8B15950 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245869
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 EC8B15950 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1318.0 lumens
Efficiency: N/A
Efficacy: 91.5 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

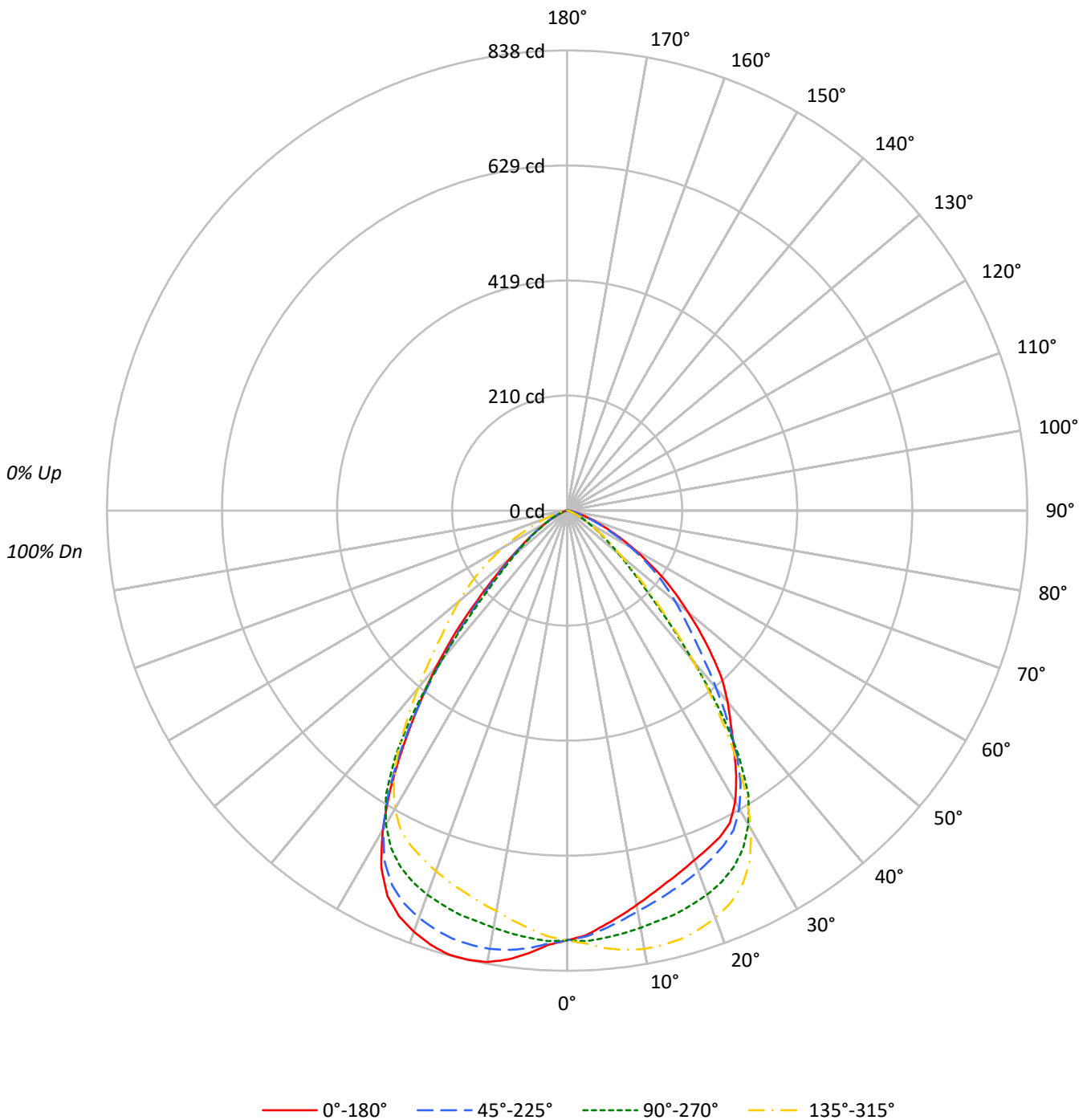
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	24129	24129	24129	24129
5°	23488	24184	25048	24184
10°	22836	24154	26139	24154
15°	22382	24297	26711	24297
20°	22229	24434	26781	24434
25°	22347	24385	26348	24385
30°	21791	23493	23917	23493
35°	19933	20493	19443	20493
40°	18299	14258	14886	14258
45°	16262	8696	10065	8696
50°	13763	5810	6452	5810
55°	11397	3962	4188	3962
60°	8696	2640	2664	2640
65°	6158	1642	1503	1642
70°	4445	1100	1001	1100
75°	2824	548	453	548
80°	1971	408	337	408
85°	1769	0	142	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	5.7
10°-20°	215.7	16.4
20°-30°	326.6	24.8
30°-40°	327.3	24.8
40°-50°	205.5	15.6
50°-60°	109.5	8.3
60°-70°	45.0	3.4
70°-80°	11.9	0.9
80°-90°	2.0	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°	616.7	46.8
0°-40°	944.0	71.6
0°-60°	1259.0	95.5
0°-90°	1318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1318.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	782	782	782	782	782	
5°	759	781	809	781	759	72
15°	701	761	837	761	701	198
25°	657	717	774	717	657	301
35°	530	544	516	544	530	332
45°	373	199	231	199	373	287
55°	212	74	78	74	212	189
65°	84	22	21	22	84	88
75°	24	5	4	5	24	27
85°	5	0	0	0	5	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°	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5
2.5°	774.4	773.7	773.3	774.1	774.4	776.0	775.6	776.3	776.3	776.7	777.5
5°	758.8	758.4	758.8	758.8	760.3	761.8	761.4	762.6	763.3	765.3	766.0
7.5°	744.3	744.3	743.9	745.4	746.2	748.5	748.1	750.0	751.1	753.0	755.7
10°	729.3	729.3	729.7	730.9	731.3	734.7	734.7	737.4	738.9	740.8	744.3
12.5°	714.8	714.8	717.1	716.4	717.9	720.6	721.7	724.4	726.7	730.5	733.9
15°	701.1	701.1	701.8	703.7	704.9	708.3	710.2	713.3	716.0	719.8	724.8
17.5°	689.2	688.9	689.2	691.5	693.8	696.9	698.4	702.2	704.9	709.9	714.5
20°	677.4	678.2	678.2	680.1	681.6	685.4	686.9	691.2	694.2	698.8	704.1
22.5°	667.1	666.7	666.7	669.4	670.5	673.9	675.5	679.3	682.7	686.6	691.5
25°	656.8	656.0	657.5	657.9	658.7	662.5	663.6	666.3	669.7	673.2	678.2
27.5°	641.5	640.7	641.1	642.6	643.8	646.8	647.6	650.3	652.9	656.0	660.2
30°	612.0	611.3	610.9	613.6	614.7	617.0	618.2	622.8	623.5	627.0	630.0
32.5°	573.1	572.7	573.5	575.8	576.9	580.0	581.5	584.2	586.1	588.0	591.0
35°	529.5	528.8	529.5	531.8	531.8	534.5	535.7	536.8	536.4	536.8	536.0
37.5°	489.0	488.6	489.0	490.2	489.0	490.2	489.0	486.7	482.5	478.0	473.4
40°	454.6	455.0	452.7	454.3	450.1	449.3	445.1	439.4	431.0	421.8	408.8
42.5°	418.0	416.8	415.3	416.1	412.6	409.9	403.1	395.8	385.1	369.8	354.2
45°	372.9	372.5	371.7	371.4	369.1	366.4	360.7	352.3	340.4	324.8	306.0
47.5°	329.0	327.8	327.8	328.2	325.5	325.1	320.5	313.3	303.0	287.7	268.2
50°	286.9	286.5	287.3	288.8	286.9	286.2	283.1	278.1	269.0	256.0	237.6
52.5°	249.1	248.7	249.5	251.4	250.6	251.4	248.3	244.5	238.4	225.8	209.8
55°	212.0	212.0	212.0	214.3	214.3	214.3	212.8	210.5	204.8	195.6	180.7
57.5°	173.5	173.8	176.1	176.5	176.1	176.9	176.5	174.2	170.4	163.9	152.4
60°	141.0	141.0	142.1	143.3	142.9	143.3	143.3	142.1	138.3	133.0	123.8
62.5°	111.6	112.7	111.9	112.7	114.2	112.7	111.9	111.2	108.5	105.1	97.4
65°	84.4	85.2	85.2	85.6	84.8	85.2	83.7	82.5	81.0	77.2	72.2
67.5°	64.2	64.2	64.2	64.2	63.8	63.4	63.0	61.9	59.2	57.7	52.3
70°	49.3	47.0	47.0	47.0	47.0	47.4	46.2	44.7	43.9	41.3	37.4
72.5°	32.9	33.6	32.9	32.9	32.1	32.5	30.9	30.2	29.4	27.9	25.6
75°	23.7	21.8	22.5	22.9	21.8	22.5	21.0	19.5	19.5	18.3	17.2
77.5°	15.3	14.9	15.3	15.7	15.3	14.9	14.1	13.4	13.4	13.0	11.8
80°	11.1	10.7	10.7	10.7	10.3	10.7	9.9	9.9	9.2	8.8	8.0
82.5°	7.3	7.3	6.9	7.3	6.9	7.3	6.1	6.1	6.1	5.7	5.0
85°	5.0	4.2	4.2	4.6	3.8	4.6	4.2	3.8	3.4	3.4	3.1
87.5°	2.3	2.7	2.3	2.7	2.3	2.3	2.7	2.3	2.3	1.5	1.5
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°	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5
2.5°	778.6	779.0	779.0	780.6	781.3	781.7	781.7	784.8	783.6	784.4	785.1
5°	767.6	769.8	770.6	770.6	774.8	776.3	777.9	781.3	781.7	784.0	786.7
7.5°	756.9	759.5	761.1	764.5	767.2	769.8	774.4	776.7	779.0	782.1	785.5
10°	746.5	749.6	752.7	755.3	759.5	763.0	766.0	771.4	774.1	778.3	782.8
12.5°	736.6	740.8	743.5	748.1	752.7	755.7	760.3	765.3	769.5	773.7	779.0
15°	727.8	732.8	735.8	740.8	745.8	750.0	755.0	761.1	764.1	769.1	774.1
17.5°	718.3	723.6	727.4	732.0	738.1	742.7	746.9	753.0	756.9	762.2	767.9
20°	708.3	713.7	718.3	722.9	729.0	733.5	738.5	744.6	748.8	754.2	758.8
22.5°	696.5	701.5	706.4	711.8	717.9	721.7	727.4	732.8	737.4	742.3	746.9
25°	681.2	687.3	691.2	696.1	701.1	705.3	711.4	716.7	720.6	725.1	729.3
27.5°	663.3	667.8	670.9	675.1	680.1	683.9	688.5	693.8	697.6	701.8	704.9
30°	632.7	636.9	639.6	642.6	647.6	651.0	654.9	659.8	662.5	665.5	668.2
32.5°	592.6	596.0	597.5	599.8	603.3	606.7	609.8	614.0	615.1	617.0	617.0
35°	534.5	535.3	534.9	535.7	537.2	539.1	541.8	544.4	546.0	546.0	544.8
37.5°	466.5	461.9	456.9	453.1	452.0	451.2	452.7	453.9	455.4	456.2	454.3
40°	395.8	385.5	374.4	364.5	357.6	354.6	353.4	354.2	354.2	356.8	356.8
42.5°	335.1	319.0	302.6	287.7	277.7	270.1	266.7	266.7	267.1	269.0	270.1
45°	284.6	264.4	245.3	228.9	215.1	205.2	200.6	199.4	199.1	199.8	202.5
47.5°	246.0	225.0	205.2	184.9	170.4	160.5	156.3	154.7	153.2	154.7	155.1
50°	215.9	194.1	173.1	152.8	137.5	128.7	123.4	121.1	120.7	120.7	121.5
52.5°	188.3	168.1	147.1	126.5	110.4	102.0	97.0	95.9	94.4	95.9	95.9
55°	162.4	142.1	121.5	102.0	88.6	79.9	75.3	73.7	73.0	74.1	74.1
57.5°	134.1	116.9	97.8	80.2	66.9	60.7	57.3	55.4	55.0	55.8	55.0
60°	110.0	95.5	79.1	63.0	52.7	46.2	43.6	42.8	42.0	42.8	42.8
62.5°	87.1	74.9	61.5	49.3	40.5	35.9	32.9	32.9	32.5	32.5	32.9
65°	64.6	55.0	45.5	35.1	28.3	24.8	22.5	22.5	22.2	22.5	22.2
67.5°	47.0	40.5	32.9	25.6	20.3	18.3	16.8	15.7	16.4	15.7	15.3
70°	34.4	29.0	23.7	19.5	15.7	13.8	12.6	12.2	11.5	11.5	11.5
72.5°	22.9	19.5	16.0	12.6	10.3	8.4	8.0	7.3	6.5	6.9	7.6
75°	15.3	13.0	11.5	9.2	6.9	6.9	4.6	4.6	3.8	4.6	3.4
77.5°	10.7	8.8	6.9	5.7	4.6	4.2	3.1	3.1	2.7	2.7	2.7
80°	7.6	6.5	5.0	4.2	3.1	3.1	2.7	2.3	1.9	1.9	2.3
82.5°	4.6	3.4	3.4	3.1	1.9	1.5	1.1	1.5	0.8	0.8	0.8
85°	2.7	2.3	1.9	1.1	0.8	0.8	0.4	0.0	0.4	0.4	0.0
87.5°	1.5	0.8	0.8	0.4	0.0	0.4	0.4	0.0	0.0	0.0	0.8
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°	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5
2.5°	787.0	786.7	787.4	787.4	789.7	789.3	790.5	790.5	789.7	790.1	791.6
5°	789.7	790.9	793.1	795.1	798.5	800.0	801.9	803.9	804.2	805.4	806.5
7.5°	789.7	793.5	796.2	799.6	804.2	806.9	811.1	814.6	816.1	818.0	820.3
10°	788.2	792.0	797.0	800.8	806.5	810.7	814.9	820.3	822.6	825.6	828.7
12.5°	785.1	789.3	794.7	799.6	806.1	810.0	815.3	820.3	823.7	827.9	831.4
15°	780.6	785.5	790.5	795.4	802.3	806.9	811.9	817.6	821.0	825.6	828.7
17.5°	773.3	778.6	783.2	787.8	794.3	799.6	804.2	809.6	813.0	816.8	821.0
20°	764.5	769.5	774.4	778.3	784.8	789.3	794.3	799.3	801.9	802.7	809.2
22.5°	753.4	756.9	760.7	766.8	770.6	774.8	779.4	784.0	786.7	790.9	793.1
25°	735.1	738.5	742.7	745.4	750.0	753.4	758.0	763.0	764.5	767.6	769.8
27.5°	709.5	711.4	713.3	715.6	718.3	720.2	722.9	725.1	726.7	728.2	729.7
30°	669.0	669.0	669.0	667.5	668.6	669.7	670.1	669.7	669.7	669.4	669.4
32.5°	615.5	612.4	609.0	605.9	604.8	603.3	602.5	601.4	599.5	598.3	598.7
35°	543.3	536.4	532.2	528.4	525.3	523.0	521.9	520.7	520.4	518.8	517.3
37.5°	453.1	448.2	445.1	442.8	440.1	437.8	438.2	438.6	439.7	439.0	439.4
40°	357.6	356.5	357.6	354.9	354.2	354.9	356.8	359.5	361.0	362.6	365.2
42.5°	272.0	273.9	276.6	276.6	277.7	279.3	281.6	285.8	288.1	290.7	293.8
45°	204.8	207.1	210.5	211.7	212.4	214.3	217.0	220.4	222.0	224.3	226.9
47.5°	157.8	159.3	161.2	163.1	165.0	165.8	168.5	168.5	170.4	171.9	172.7
50°	123.0	124.5	126.1	127.2	128.0	129.1	129.9	131.0	131.4	132.2	132.6
52.5°	96.3	98.2	98.2	98.9	100.1	101.2	100.9	101.2	101.6	101.6	102.8
55°	75.3	75.3	76.4	76.4	77.2	76.8	77.2	77.2	77.2	77.2	77.6
57.5°	56.2	56.6	57.7	56.9	56.6	57.3	56.6	57.3	56.9	57.7	56.6
60°	43.2	43.2	43.6	43.6	43.9	43.9	43.9	43.6	43.6	43.2	43.2
62.5°	32.5	32.9	33.2	32.9	32.9	32.9	32.5	32.5	32.1	31.7	31.7
65°	21.8	21.4	22.2	21.4	21.8	21.8	21.4	21.8	20.6	21.0	20.6
67.5°	15.7	15.3	14.9	15.3	14.9	14.5	14.5	14.9	15.3	14.1	14.1
70°	10.3	10.7	10.3	10.7	11.1	11.1	10.7	10.3	10.7	9.9	10.3
72.5°	6.5	6.5	6.5	6.5	6.5	6.9	6.9	6.9	6.1	6.1	5.7
75°	3.1	4.2	3.4	3.1	4.2	4.2	3.8	3.8	3.4	3.4	3.4
77.5°	3.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.9	2.3	1.9
80°	1.5	1.5	1.5	1.1	1.5	1.5	1.9	1.5	1.5	1.1	1.9
82.5°	0.8	0.8	0.8	0.0	0.4	0.8	0.8	0.4	0.8	0.8	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°	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5
2.5°	791.2	790.9	791.2	791.6	791.2	790.9	791.2	791.6	790.1	789.7	790.5
5°	808.1	808.1	808.8	809.2	808.8	808.1	808.1	806.5	805.4	804.2	803.9
7.5°	822.6	823.3	824.1	824.5	824.1	823.3	822.6	820.3	818.0	816.1	814.6
10°	831.4	832.5	834.0	834.8	834.0	832.5	831.4	828.7	825.6	822.6	820.3
12.5°	835.2	836.3	838.2	837.9	838.2	836.3	835.2	831.4	827.9	823.7	820.3
15°	832.5	834.0	835.9	836.7	835.9	834.0	832.5	828.7	825.6	821.0	817.6
17.5°	824.1	826.4	827.5	828.7	827.5	826.4	824.1	821.0	816.8	813.0	809.6
20°	812.6	814.2	815.7	816.1	815.7	814.2	812.6	809.2	802.7	801.9	799.3
22.5°	796.2	797.4	800.8	799.6	800.8	797.4	796.2	793.1	790.9	786.7	784.0
25°	772.5	773.7	774.1	774.4	774.1	773.7	772.5	769.8	767.6	764.5	763.0
27.5°	731.6	731.6	732.4	732.8	732.4	731.6	731.6	729.7	728.2	726.7	725.1
30°	669.7	669.7	669.7	671.7	669.7	669.7	669.7	669.4	669.4	669.7	669.7
32.5°	598.3	597.5	596.8	597.5	596.8	597.5	598.3	598.7	598.3	599.5	601.4
35°	517.3	516.9	518.1	516.5	518.1	516.9	517.3	517.3	518.8	520.4	520.7
37.5°	439.7	439.0	440.5	439.0	440.5	439.0	439.7	439.4	439.0	439.7	438.6
40°	366.0	366.8	366.8	369.8	366.8	366.8	366.0	365.2	362.6	361.0	359.5
42.5°	295.3	297.6	296.9	299.2	296.9	297.6	295.3	293.8	290.7	288.1	285.8
45°	228.5	230.0	230.0	230.8	230.0	230.0	228.5	226.9	224.3	222.0	220.4
47.5°	175.4	175.4	175.4	175.8	175.4	175.4	175.4	172.7	171.9	170.4	168.5
50°	133.3	133.7	134.1	134.5	134.1	133.7	133.3	132.6	132.2	131.4	131.0
52.5°	102.4	102.8	102.0	102.8	102.0	102.8	102.4	102.8	101.6	101.6	101.2
55°	77.6	77.2	77.6	77.9	77.6	77.2	77.6	77.6	77.2	77.2	77.2
57.5°	56.9	56.2	56.2	56.2	56.2	56.2	56.9	56.6	57.7	56.9	57.3
60°	42.4	42.8	42.8	43.2	42.8	42.8	42.4	43.2	43.2	43.6	43.6
62.5°	31.3	32.5	31.7	32.5	31.7	32.5	31.3	31.7	31.7	32.1	32.5
65°	20.3	20.3	20.3	20.6	20.3	20.3	20.3	20.6	21.0	20.6	21.8
67.5°	13.8	14.1	14.9	14.5	14.9	14.1	13.8	14.1	14.1	15.3	14.9
70°	11.1	9.9	9.9	11.1	9.9	9.9	11.1	10.3	9.9	10.7	10.3
72.5°	6.5	5.7	6.5	6.5	6.5	5.7	6.5	5.7	6.1	6.1	6.9
75°	3.4	3.1	2.7	3.8	2.7	3.1	3.4	3.4	3.4	3.4	3.8
77.5°	2.3	1.9	2.7	2.7	2.7	1.9	2.3	1.9	2.3	1.9	2.3
80°	1.1	1.5	1.1	1.9	1.1	1.5	1.1	1.9	1.1	1.5	1.5
82.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.8	0.8	0.4
85°	0.0	0.8	0.4	0.4	0.4	0.8	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°	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5
2.5°	790.5	789.3	789.7	787.4	787.4	786.7	787.0	785.1	784.4	783.6	784.8
5°	801.9	800.0	798.5	795.1	793.1	790.9	789.7	786.7	784.0	781.7	781.3
7.5°	811.1	806.9	804.2	799.6	796.2	793.5	789.7	785.5	782.1	779.0	776.7
10°	814.9	810.7	806.5	800.8	797.0	792.0	788.2	782.8	778.3	774.1	771.4
12.5°	815.3	810.0	806.1	799.6	794.7	789.3	785.1	779.0	773.7	769.5	765.3
15°	811.9	806.9	802.3	795.4	790.5	785.5	780.6	774.1	769.1	764.1	761.1
17.5°	804.2	799.6	794.3	787.8	783.2	778.6	773.3	767.9	762.2	756.9	753.0
20°	794.3	789.3	784.8	778.3	774.4	769.5	764.5	758.8	754.2	748.8	744.6
22.5°	779.4	774.8	770.6	766.8	760.7	756.9	753.4	746.9	742.3	737.4	732.8
25°	758.0	753.4	750.0	745.4	742.7	738.5	735.1	729.3	725.1	720.6	716.7
27.5°	722.9	720.2	718.3	715.6	713.3	711.4	709.5	704.9	701.8	697.6	693.8
30°	670.1	669.7	668.6	667.5	669.0	669.0	669.0	668.2	665.5	662.5	659.8
32.5°	602.5	603.3	604.8	605.9	609.0	612.4	615.5	617.0	617.0	615.1	614.0
35°	521.9	523.0	525.3	528.4	532.2	536.4	543.3	544.8	546.0	546.0	544.4
37.5°	438.2	437.8	440.1	442.8	445.1	448.2	453.1	454.3	456.2	455.4	453.9
40°	356.8	354.9	354.2	354.9	357.6	356.5	357.6	356.8	356.8	354.2	354.2
42.5°	281.6	279.3	277.7	276.6	276.6	273.9	272.0	270.1	269.0	267.1	266.7
45°	217.0	214.3	212.4	211.7	210.5	207.1	204.8	202.5	199.8	199.1	199.4
47.5°	168.5	165.8	165.0	163.1	161.2	159.3	157.8	155.1	154.7	153.2	154.7
50°	129.9	129.1	128.0	127.2	126.1	124.5	123.0	121.5	120.7	120.7	121.1
52.5°	100.9	101.2	100.1	98.9	98.2	98.2	96.3	95.9	95.9	94.4	95.9
55°	77.2	76.8	77.2	76.4	76.4	75.3	75.3	74.1	74.1	73.0	73.7
57.5°	56.6	57.3	56.6	56.9	57.7	56.6	56.2	55.0	55.8	55.0	55.4
60°	43.9	43.9	43.9	43.6	43.6	43.2	43.2	42.8	42.8	42.0	42.8
62.5°	32.5	32.9	32.9	32.9	33.2	32.9	32.5	32.9	32.5	32.5	32.9
65°	21.4	21.8	21.8	21.4	22.2	21.4	21.8	22.2	22.5	22.2	22.5
67.5°	14.5	14.5	14.9	15.3	14.9	15.3	15.7	15.3	15.7	16.4	15.7
70°	10.7	11.1	11.1	10.7	10.3	10.7	10.3	11.5	11.5	11.5	12.2
72.5°	6.9	6.9	6.5	6.5	6.5	6.5	6.5	7.6	6.9	6.5	7.3
75°	3.8	4.2	4.2	3.1	3.4	4.2	3.1	3.4	4.6	3.8	4.6
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	3.1	2.7	2.7	2.7	3.1
80°	1.9	1.5	1.5	1.1	1.5	1.5	1.5	2.3	1.9	1.9	2.3
82.5°	0.8	0.8	0.4	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.5
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	0.8	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°	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5
2.5°	781.7	781.7	781.3	780.6	779.0	779.0	778.6	777.5	776.7	776.3	776.3
5°	777.9	776.3	774.8	770.6	770.6	769.8	767.6	766.0	765.3	763.3	762.6
7.5°	774.4	769.8	767.2	764.5	761.1	759.5	756.9	755.7	753.0	751.1	750.0
10°	766.0	763.0	759.5	755.3	752.7	749.6	746.5	744.3	740.8	738.9	737.4
12.5°	760.3	755.7	752.7	748.1	743.5	740.8	736.6	733.9	730.5	726.7	724.4
15°	755.0	750.0	745.8	740.8	735.8	732.8	727.8	724.8	719.8	716.0	713.3
17.5°	746.9	742.7	738.1	732.0	727.4	723.6	718.3	714.5	709.9	704.9	702.2
20°	738.5	733.5	729.0	722.9	718.3	713.7	708.3	704.1	698.8	694.2	691.2
22.5°	727.4	721.7	717.9	711.8	706.4	701.5	696.5	691.5	686.6	682.7	679.3
25°	711.4	705.3	701.1	696.1	691.2	687.3	681.2	678.2	673.2	669.7	666.3
27.5°	688.5	683.9	680.1	675.1	670.9	667.8	663.3	660.2	656.0	652.9	650.3
30°	654.9	651.0	647.6	642.6	639.6	636.9	632.7	630.0	627.0	623.5	622.8
32.5°	609.8	606.7	603.3	599.8	597.5	596.0	592.6	591.0	588.0	586.1	584.2
35°	541.8	539.1	537.2	535.7	534.9	535.3	534.5	536.0	536.8	536.4	536.8
37.5°	452.7	451.2	452.0	453.1	456.9	461.9	466.5	473.4	478.0	482.5	486.7
40°	353.4	354.6	357.6	364.5	374.4	385.5	395.8	408.8	421.8	431.0	439.4
42.5°	266.7	270.1	277.7	287.7	302.6	319.0	335.1	354.2	369.8	385.1	395.8
45°	200.6	205.2	215.1	228.9	245.3	264.4	284.6	306.0	324.8	340.4	352.3
47.5°	156.3	160.5	170.4	184.9	205.2	225.0	246.0	268.2	287.7	303.0	313.3
50°	123.4	128.7	137.5	152.8	173.1	194.1	215.9	237.6	256.0	269.0	278.1
52.5°	97.0	102.0	110.4	126.5	147.1	168.1	188.3	209.8	225.8	238.4	244.5
55°	75.3	79.9	88.6	102.0	121.5	142.1	162.4	180.7	195.6	204.8	210.5
57.5°	57.3	60.7	66.9	80.2	97.8	116.9	134.1	152.4	163.9	170.4	174.2
60°	43.6	46.2	52.7	63.0	79.1	95.5	110.0	123.8	133.0	138.3	142.1
62.5°	32.9	35.9	40.5	49.3	61.5	74.9	87.1	97.4	105.1	108.5	111.2
65°	22.5	24.8	28.3	35.1	45.5	55.0	64.6	72.2	77.2	81.0	82.5
67.5°	16.8	18.3	20.3	25.6	32.9	40.5	47.0	52.3	57.7	59.2	61.9
70°	12.6	13.8	15.7	19.5	23.7	29.0	34.4	37.4	41.3	43.9	44.7
72.5°	8.0	8.4	10.3	12.6	16.0	19.5	22.9	25.6	27.9	29.4	30.2
75°	4.6	6.9	6.9	9.2	11.5	13.0	15.3	17.2	18.3	19.5	19.5
77.5°	3.1	4.2	4.6	5.7	6.9	8.8	10.7	11.8	13.0	13.4	13.4
80°	2.7	3.1	3.1	4.2	5.0	6.5	7.6	8.0	8.8	9.2	9.9
82.5°	1.1	1.5	1.9	3.1	3.4	3.4	4.6	5.0	5.7	6.1	6.1
85°	0.4	0.8	0.8	1.1	1.9	2.3	2.7	3.1	3.4	3.4	3.8
87.5°	0.4	0.4	0.0	0.4	0.8	0.8	1.5	1.5	1.5	2.3	2.3
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: P245869

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	782.5	782.5	782.5	782.5	782.5	782.5	782.5
2.5°	775.6	776.0	774.4	774.1	773.3	773.7	774.4
5°	761.4	761.8	760.3	758.8	758.8	758.4	758.8
7.5°	748.1	748.5	746.2	745.4	743.9	744.3	744.3
10°	734.7	734.7	731.3	730.9	729.7	729.3	729.3
12.5°	721.7	720.6	717.9	716.4	717.1	714.8	714.8
15°	710.2	708.3	704.9	703.7	701.8	701.1	701.1
17.5°	698.4	696.9	693.8	691.5	689.2	688.9	689.2
20°	686.9	685.4	681.6	680.1	678.2	678.2	677.4
22.5°	675.5	673.9	670.5	669.4	666.7	666.7	667.1
25°	663.6	662.5	658.7	657.9	657.5	656.0	656.8
27.5°	647.6	646.8	643.8	642.6	641.1	640.7	641.5
30°	618.2	617.0	614.7	613.6	610.9	611.3	612.0
32.5°	581.5	580.0	576.9	575.8	573.5	572.7	573.1
35°	535.7	534.5	531.8	531.8	529.5	528.8	529.5
37.5°	489.0	490.2	489.0	490.2	489.0	488.6	489.0
40°	445.1	449.3	450.1	454.3	452.7	455.0	454.6
42.5°	403.1	409.9	412.6	416.1	415.3	416.8	418.0
45°	360.7	366.4	369.1	371.4	371.7	372.5	372.9
47.5°	320.5	325.1	325.5	328.2	327.8	327.8	329.0
50°	283.1	286.2	286.9	288.8	287.3	286.5	286.9
52.5°	248.3	251.4	250.6	251.4	249.5	248.7	249.1
55°	212.8	214.3	214.3	214.3	212.0	212.0	212.0
57.5°	176.5	176.9	176.1	176.5	176.1	173.8	173.5
60°	143.3	143.3	142.9	143.3	142.1	141.0	141.0
62.5°	111.9	112.7	114.2	112.7	111.9	112.7	111.6
65°	83.7	85.2	84.8	85.6	85.2	85.2	84.4
67.5°	63.0	63.4	63.8	64.2	64.2	64.2	64.2
70°	46.2	47.4	47.0	47.0	47.0	47.0	49.3
72.5°	30.9	32.5	32.1	32.9	32.9	33.6	32.9
75°	21.0	22.5	21.8	22.9	22.5	21.8	23.7
77.5°	14.1	14.9	15.3	15.7	15.3	14.9	15.3
80°	9.9	10.7	10.3	10.7	10.7	10.7	11.1
82.5°	6.1	7.3	6.9	7.3	6.9	7.3	7.3
85°	4.2	4.6	3.8	4.6	4.2	4.2	5.0
87.5°	2.7	2.3	2.3	2.7	2.3	2.7	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)