

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 EC8B20927 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 EC8B20927 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: 1312.9 lumens  
Efficiency: N/A  
Efficacy: 61.6 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

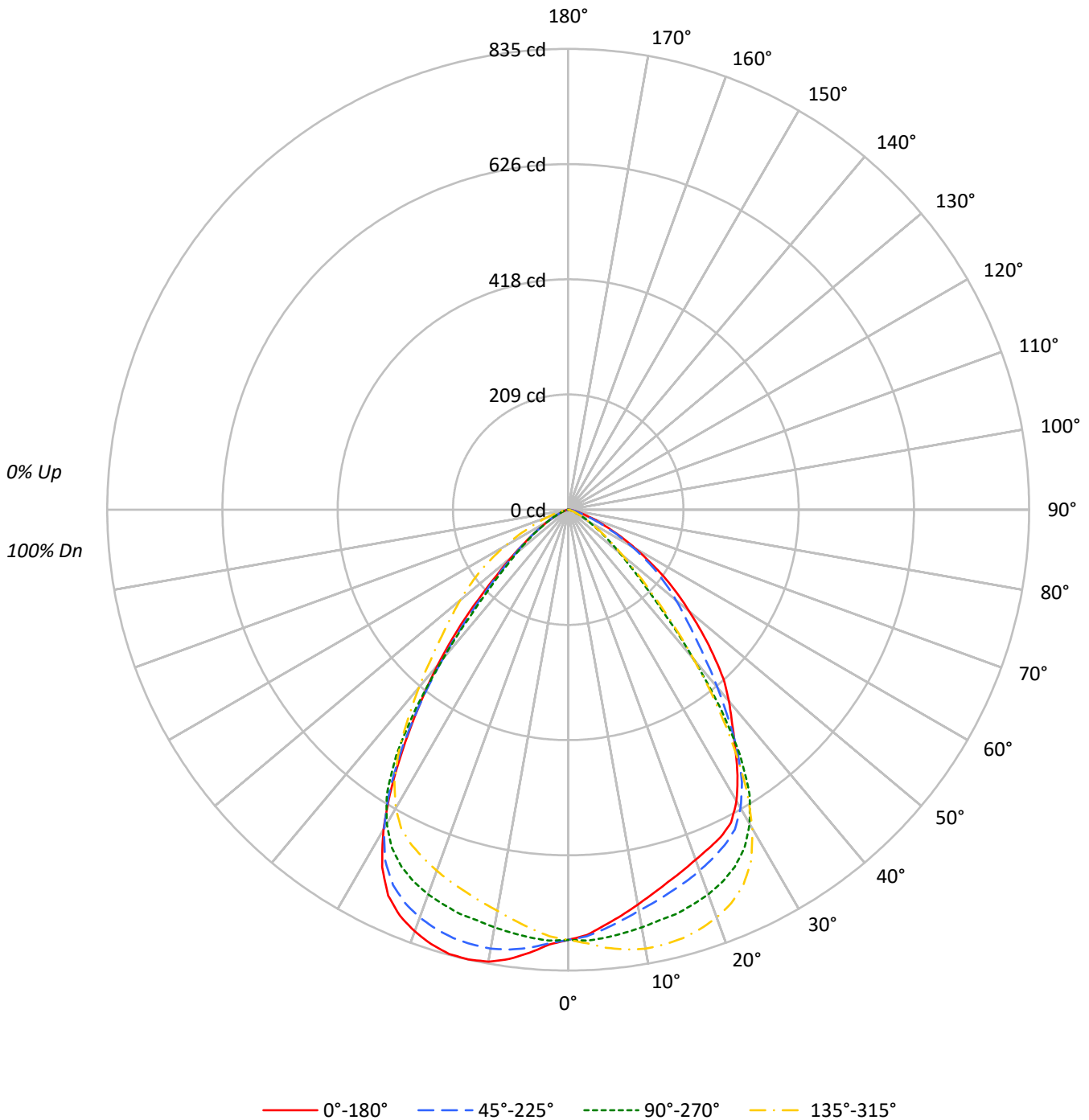
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	74.2	5.7
10°-20°	214.8	16.4
20°-30°	325.3	24.8
30°-40°	326.0	24.8
40°-50°	204.7	15.6
50°-60°	109.1	8.3
60°-70°	44.9	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°	614.3	46.8
0°-40°	940.3	71.6
0°-60°	1254.2	95.5
0°-90°	1312.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1312.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	779	779	779	779	779	
5°	756	778	806	778	756	71
15°	698	758	833	758	698	198
25°	654	714	771	714	654	300
35°	528	542	515	542	528	330
45°	372	199	230	199	372	286
55°	211	74	78	74	211	188
65°	84	22	21	22	84	87
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°	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4
2.5°	771.4	770.6	770.3	771.1	771.4	773.0	772.5	773.3	773.3	773.7	774.4
5°	755.8	755.4	755.8	755.8	757.4	758.8	758.5	759.6	760.4	762.3	763.1
7.5°	741.4	741.4	740.9	742.5	743.3	745.5	745.2	747.1	748.2	750.2	752.7
10°	726.5	726.5	726.9	728.0	728.4	731.8	731.8	734.5	736.0	737.9	741.4
12.5°	712.0	712.0	714.4	713.6	715.1	717.8	718.9	721.6	723.8	727.6	731.1
15°	698.4	698.4	699.1	701.0	702.1	705.6	707.5	710.6	713.2	717.0	721.9
17.5°	686.6	686.1	686.6	688.8	691.1	694.1	695.7	699.5	702.1	707.1	711.7
20°	674.8	675.6	675.6	677.5	678.9	682.8	684.2	688.5	691.5	696.0	701.4
22.5°	664.4	664.1	664.1	666.8	667.9	671.3	672.9	676.7	680.1	683.9	688.8
25°	654.2	653.4	655.0	655.3	656.1	659.9	661.1	663.8	667.1	670.6	675.6
27.5°	639.0	638.2	638.6	640.1	641.2	644.3	645.1	647.8	650.4	653.4	657.7
30°	609.6	609.0	608.5	611.2	612.3	614.6	615.7	620.3	621.1	624.5	627.5
32.5°	570.8	570.5	571.3	573.5	574.6	577.7	579.3	581.8	583.8	585.7	588.7
35°	527.5	526.7	527.5	529.8	529.8	532.5	533.6	534.7	534.4	534.7	533.9
37.5°	487.1	486.8	487.1	488.2	487.1	488.2	487.1	484.9	480.7	476.1	471.5
40°	452.9	453.3	451.0	452.5	448.3	447.5	443.4	437.6	429.3	420.2	407.2
42.5°	416.4	415.2	413.7	414.4	411.1	408.4	401.5	394.3	383.6	368.4	352.8
45°	371.5	371.0	370.3	369.9	367.7	365.0	359.2	350.9	339.1	323.4	304.9
47.5°	327.7	326.5	326.5	326.9	324.2	323.9	319.3	312.1	301.8	286.5	267.2
50°	285.8	285.4	286.2	287.7	285.8	285.1	282.0	277.1	268.0	255.0	236.7
52.5°	248.2	247.7	248.5	250.4	249.6	250.4	247.4	243.6	237.5	224.9	208.9
55°	211.3	211.3	211.3	213.5	213.5	213.5	212.0	209.7	204.0	194.8	180.0
57.5°	172.8	173.1	175.5	175.8	175.5	176.2	175.8	173.6	169.8	163.2	151.9
60°	140.4	140.4	141.5	142.8	142.3	142.8	142.8	141.5	137.8	132.4	123.3
62.5°	111.2	112.3	111.5	112.3	113.7	112.3	111.5	110.7	108.1	104.6	97.1
65°	84.1	84.8	84.8	85.3	84.5	84.8	83.4	82.2	80.7	76.8	71.9
67.5°	63.9	63.9	63.9	63.9	63.6	63.2	62.8	61.6	59.0	57.5	52.1
70°	49.1	46.8	46.8	46.8	46.8	47.2	46.0	44.6	43.8	41.1	37.4
72.5°	32.7	33.5	32.7	32.7	32.0	32.4	30.8	30.0	29.4	27.8	25.5
75°	23.6	21.7	22.5	22.8	21.7	22.5	20.9	19.5	19.5	18.2	17.1
77.5°	15.2	14.8	15.2	15.6	15.2	14.8	14.1	13.3	13.3	12.9	11.8
80°	11.0	10.7	10.7	10.7	10.2	10.7	9.9	9.9	9.1	8.8	8.0
82.5°	7.2	7.2	6.9	7.2	6.9	7.2	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	3.0
87.5°	2.2	2.7	2.2	2.7	2.2	2.2	2.7	2.2	2.2	1.6	1.6
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°	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4
2.5°	775.6	776.0	776.0	777.5	778.3	778.6	778.6	781.6	780.5	781.3	782.1
5°	764.6	766.8	767.6	767.6	771.8	773.3	774.8	778.3	778.6	781.0	783.6
7.5°	753.9	756.6	758.1	761.5	764.2	766.8	771.4	773.7	776.0	779.1	782.4
10°	743.6	746.7	749.7	752.4	756.6	760.1	763.1	768.4	771.1	775.2	779.7
12.5°	733.7	737.9	740.6	745.2	749.7	752.7	757.4	762.3	766.5	770.6	776.0
15°	724.9	729.9	732.9	737.9	742.8	747.1	752.1	758.1	761.2	766.1	771.1
17.5°	715.5	720.8	724.6	729.2	735.3	739.8	744.1	750.2	753.9	759.3	765.0
20°	705.6	710.9	715.5	720.0	726.2	730.7	735.6	741.7	745.9	751.3	755.8
22.5°	693.8	698.7	703.7	709.0	715.1	718.9	724.6	729.9	734.5	739.5	744.1
25°	678.6	684.7	688.5	693.4	698.4	702.6	708.6	713.9	717.8	722.4	726.5
27.5°	660.7	665.2	668.2	672.5	677.5	681.2	685.8	691.1	694.9	699.1	702.1
30°	630.2	634.4	637.1	640.1	645.1	648.4	652.3	657.2	659.9	663.0	665.7
32.5°	590.3	593.7	595.2	597.5	601.0	604.4	607.4	611.6	612.7	614.6	614.6
35°	532.5	533.1	532.8	533.6	535.1	537.0	539.7	542.4	543.8	543.8	542.7
37.5°	464.6	460.1	455.2	451.4	450.2	449.4	451.0	452.1	453.6	454.4	452.5
40°	394.3	384.0	372.9	363.0	356.2	353.1	352.0	352.8	352.8	355.5	355.5
42.5°	333.8	317.8	301.4	286.5	276.6	269.1	265.6	265.6	266.1	268.0	269.1
45°	283.5	263.4	244.4	227.9	214.3	204.4	199.8	198.7	198.3	199.0	201.7
47.5°	245.1	224.2	204.4	184.2	169.8	159.9	155.7	154.1	152.5	154.1	154.5
50°	215.0	193.4	172.4	152.2	137.0	128.2	123.0	120.6	120.3	120.3	121.0
52.5°	187.6	167.4	146.5	126.0	110.0	101.6	96.6	95.5	94.0	95.5	95.5
55°	161.8	141.5	121.0	101.6	88.3	79.5	74.9	73.5	72.7	73.8	73.8
57.5°	133.5	116.4	97.4	79.9	66.6	60.5	57.0	55.2	54.8	55.6	54.8
60°	109.6	95.2	78.8	62.8	52.5	46.0	43.4	42.6	41.8	42.6	42.6
62.5°	86.7	74.6	61.3	49.1	40.4	35.8	32.7	32.7	32.4	32.4	32.7
65°	64.4	54.8	45.3	35.0	28.1	24.8	22.5	22.5	22.0	22.5	22.0
67.5°	46.8	40.4	32.7	25.5	20.1	18.2	16.8	15.6	16.4	15.6	15.2
70°	34.3	28.9	23.6	19.5	15.6	13.7	12.6	12.2	11.5	11.5	11.5
72.5°	22.8	19.5	16.0	12.6	10.2	8.3	8.0	7.2	6.5	6.9	7.6
75°	15.2	12.9	11.5	9.1	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	3.0	3.0	2.7	2.7	2.7
80°	7.6	6.5	5.0	4.2	3.0	3.0	2.7	2.2	1.9	1.9	2.2
82.5°	4.6	3.4	3.4	3.0	1.9	1.6	1.1	1.6	0.8	0.8	0.8
85°	2.7	2.2	1.9	1.1	0.8	0.8	0.3	0.0	0.3	0.3	0.0
87.5°	1.6	0.8	0.8	0.3	0.0	0.3	0.3	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°	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4
2.5°	784.0	783.6	784.4	784.4	786.6	786.3	787.4	787.4	786.6	787.1	788.5
5°	786.6	787.8	790.1	792.0	795.4	796.9	798.9	800.8	801.1	802.2	803.4
7.5°	786.6	790.4	793.1	796.5	801.1	803.8	808.0	811.4	812.9	814.8	817.1
10°	785.1	789.0	793.9	797.6	803.4	807.5	811.8	817.1	819.3	822.4	825.4
12.5°	782.1	786.3	791.6	796.5	803.0	806.8	812.1	817.1	820.5	824.7	828.1
15°	777.5	782.4	787.4	792.3	799.2	803.8	808.8	814.4	817.9	822.4	825.4
17.5°	770.3	775.6	780.2	784.7	791.2	796.5	801.1	806.4	809.9	813.7	817.9
20°	761.5	766.5	771.4	775.2	781.6	786.3	791.2	796.2	798.9	799.5	806.1
22.5°	750.5	753.9	757.7	763.8	767.6	771.8	776.4	781.0	783.6	787.8	790.1
25°	732.3	735.6	739.8	742.5	747.1	750.5	755.1	760.1	761.5	764.6	766.8
27.5°	706.7	708.6	710.6	712.8	715.5	717.4	720.0	722.4	723.8	725.4	726.9
30°	666.3	666.3	666.3	664.9	666.0	667.1	667.6	667.1	667.1	666.8	666.8
32.5°	613.1	610.1	606.6	603.6	602.4	601.0	600.2	599.1	597.2	596.0	596.4
35°	541.1	534.4	530.1	526.4	523.4	521.0	519.9	518.7	518.4	516.8	515.2
37.5°	451.4	446.4	443.4	441.1	438.4	436.2	436.5	437.0	438.1	437.3	437.6
40°	356.2	355.0	356.2	353.6	352.8	353.6	355.5	358.1	359.7	361.1	363.8
42.5°	271.0	272.8	275.5	275.5	276.6	278.2	280.5	284.6	287.0	289.6	292.6
45°	204.0	206.3	209.7	210.8	211.6	213.5	216.2	219.6	221.1	223.4	226.0
47.5°	157.2	158.7	160.6	162.5	164.4	165.2	167.8	167.8	169.8	171.2	172.0
50°	122.5	124.1	125.6	126.7	127.5	128.6	129.4	130.5	131.0	131.6	132.1
52.5°	95.9	97.8	97.8	98.6	99.7	100.8	100.5	100.8	101.2	101.2	102.4
55°	74.9	74.9	76.2	76.2	76.8	76.5	76.8	76.8	76.8	76.8	77.3
57.5°	55.9	56.4	57.5	56.7	56.4	57.0	56.4	57.0	56.7	57.5	56.4
60°	43.0	43.0	43.4	43.4	43.8	43.8	43.8	43.4	43.4	43.0	43.0
62.5°	32.4	32.7	33.1	32.7	32.7	32.7	32.4	32.4	32.0	31.6	31.6
65°	21.7	21.4	22.0	21.4	21.7	21.7	21.4	21.7	20.6	20.9	20.6
67.5°	15.6	15.2	14.8	15.2	14.8	14.5	14.5	14.8	15.2	14.1	14.1
70°	10.2	10.7	10.2	10.7	11.0	11.0	10.7	10.2	10.7	9.9	10.2
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°	3.0	4.2	3.4	3.0	4.2	4.2	3.8	3.8	3.4	3.4	3.4
77.5°	3.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.9	2.2	1.9
80°	1.6	1.6	1.6	1.1	1.6	1.6	1.9	1.6	1.6	1.1	1.9
82.5°	0.8	0.8	0.8	0.0	0.3	0.8	0.8	0.3	0.8	0.8	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°	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4
2.5°	788.2	787.8	788.2	788.5	788.2	787.8	788.2	788.5	787.1	786.6	787.4
5°	804.9	804.9	805.6	806.1	805.6	804.9	804.9	803.4	802.2	801.1	800.8
7.5°	819.3	820.1	820.9	821.2	820.9	820.1	819.3	817.1	814.8	812.9	811.4
10°	828.1	829.2	830.8	831.6	830.8	829.2	828.1	825.4	822.4	819.3	817.1
12.5°	831.9	833.1	835.0	834.6	835.0	833.1	831.9	828.1	824.7	820.5	817.1
15°	829.2	830.8	832.7	833.4	832.7	830.8	829.2	825.4	822.4	817.9	814.4
17.5°	820.9	823.2	824.3	825.4	824.3	823.2	820.9	817.9	813.7	809.9	806.4
20°	809.4	811.0	812.5	812.9	812.5	811.0	809.4	806.1	799.5	798.9	796.2
22.5°	793.1	794.2	797.6	796.5	797.6	794.2	793.1	790.1	787.8	783.6	781.0
25°	769.5	770.6	771.1	771.4	771.1	770.6	769.5	766.8	764.6	761.5	760.1
27.5°	728.8	728.8	729.6	729.9	729.6	728.8	728.8	726.9	725.4	723.8	722.4
30°	667.1	667.1	667.1	669.0	667.1	667.1	667.1	666.8	666.8	667.1	667.1
32.5°	596.0	595.2	594.4	595.2	594.4	595.2	596.0	596.4	596.0	597.2	599.1
35°	515.2	514.9	516.0	514.6	516.0	514.9	515.2	515.2	516.8	518.4	518.7
37.5°	438.1	437.3	438.8	437.3	438.8	437.3	438.1	437.6	437.3	438.1	437.0
40°	364.6	365.4	365.4	368.4	365.4	365.4	364.6	363.8	361.1	359.7	358.1
42.5°	294.2	296.4	295.7	298.0	295.7	296.4	294.2	292.6	289.6	287.0	284.6
45°	227.6	229.2	229.2	229.8	229.2	229.2	227.6	226.0	223.4	221.1	219.6
47.5°	174.7	174.7	174.7	175.0	174.7	174.7	174.7	172.0	171.2	169.8	167.8
50°	132.9	133.2	133.5	134.0	133.5	133.2	132.9	132.1	131.6	131.0	130.5
52.5°	102.0	102.4	101.6	102.4	101.6	102.4	102.0	102.4	101.2	101.2	100.8
55°	77.3	76.8	77.3	77.6	77.3	76.8	77.3	77.3	76.8	76.8	76.8
57.5°	56.7	55.9	55.9	55.9	55.9	55.9	56.7	56.4	57.5	56.7	57.0
60°	42.3	42.6	42.6	43.0	42.6	42.6	42.3	43.0	43.0	43.4	43.4
62.5°	31.2	32.4	31.6	32.4	31.6	32.4	31.2	31.6	31.6	32.0	32.4
65°	20.1	20.1	20.1	20.6	20.1	20.1	20.1	20.6	20.9	20.6	21.7
67.5°	13.7	14.1	14.8	14.5	14.8	14.1	13.7	14.1	14.1	15.2	14.8
70°	11.0	9.9	9.9	11.0	9.9	9.9	11.0	10.2	9.9	10.7	10.2
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	3.0	2.7	3.8	2.7	3.0	3.4	3.4	3.4	3.4	3.8
77.5°	2.2	1.9	2.7	2.7	2.7	1.9	2.2	1.9	2.2	1.9	2.2
80°	1.1	1.6	1.1	1.9	1.1	1.6	1.1	1.9	1.1	1.6	1.6
82.5°	0.3	0.8	0.8	0.8	0.8	0.8	0.3	0.3	0.8	0.8	0.3
85°	0.0	0.8	0.3	0.3	0.3	0.8	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°	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4
2.5°	787.4	786.3	786.6	784.4	784.4	783.6	784.0	782.1	781.3	780.5	781.6
5°	798.9	796.9	795.4	792.0	790.1	787.8	786.6	783.6	781.0	778.6	778.3
7.5°	808.0	803.8	801.1	796.5	793.1	790.4	786.6	782.4	779.1	776.0	773.7
10°	811.8	807.5	803.4	797.6	793.9	789.0	785.1	779.7	775.2	771.1	768.4
12.5°	812.1	806.8	803.0	796.5	791.6	786.3	782.1	776.0	770.6	766.5	762.3
15°	808.8	803.8	799.2	792.3	787.4	782.4	777.5	771.1	766.1	761.2	758.1
17.5°	801.1	796.5	791.2	784.7	780.2	775.6	770.3	765.0	759.3	753.9	750.2
20°	791.2	786.3	781.6	775.2	771.4	766.5	761.5	755.8	751.3	745.9	741.7
22.5°	776.4	771.8	767.6	763.8	757.7	753.9	750.5	744.1	739.5	734.5	729.9
25°	755.1	750.5	747.1	742.5	739.8	735.6	732.3	726.5	722.4	717.8	713.9
27.5°	720.0	717.4	715.5	712.8	710.6	708.6	706.7	702.1	699.1	694.9	691.1
30°	667.6	667.1	666.0	664.9	666.3	666.3	666.3	665.7	663.0	659.9	657.2
32.5°	600.2	601.0	602.4	603.6	606.6	610.1	613.1	614.6	614.6	612.7	611.6
35°	519.9	521.0	523.4	526.4	530.1	534.4	541.1	542.7	543.8	543.8	542.4
37.5°	436.5	436.2	438.4	441.1	443.4	446.4	451.4	452.5	454.4	453.6	452.1
40°	355.5	353.6	352.8	353.6	356.2	355.0	356.2	355.5	355.5	352.8	352.8
42.5°	280.5	278.2	276.6	275.5	275.5	272.8	271.0	269.1	268.0	266.1	265.6
45°	216.2	213.5	211.6	210.8	209.7	206.3	204.0	201.7	199.0	198.3	198.7
47.5°	167.8	165.2	164.4	162.5	160.6	158.7	157.2	154.5	154.1	152.5	154.1
50°	129.4	128.6	127.5	126.7	125.6	124.1	122.5	121.0	120.3	120.3	120.6
52.5°	100.5	100.8	99.7	98.6	97.8	97.8	95.9	95.5	95.5	94.0	95.5
55°	76.8	76.5	76.8	76.2	76.2	74.9	74.9	73.8	73.8	72.7	73.5
57.5°	56.4	57.0	56.4	56.7	57.5	56.4	55.9	54.8	55.6	54.8	55.2
60°	43.8	43.8	43.8	43.4	43.4	43.0	43.0	42.6	42.6	41.8	42.6
62.5°	32.4	32.7	32.7	32.7	33.1	32.7	32.4	32.7	32.4	32.4	32.7
65°	21.4	21.7	21.7	21.4	22.0	21.4	21.7	22.0	22.5	22.0	22.5
67.5°	14.5	14.5	14.8	15.2	14.8	15.2	15.6	15.2	15.6	16.4	15.6
70°	10.7	11.0	11.0	10.7	10.2	10.7	10.2	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	7.2
75°	3.8	4.2	4.2	3.0	3.4	4.2	3.0	3.4	4.6	3.8	4.6
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	3.0	2.7	2.7	2.7	3.0
80°	1.9	1.6	1.6	1.1	1.6	1.6	1.6	2.2	1.9	1.9	2.2
82.5°	0.8	0.8	0.3	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.6
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	0.8	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°	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4	779.4
2.5°	778.6	778.6	778.3	777.5	776.0	776.0	775.6	774.4	773.7	773.3	773.3
5°	774.8	773.3	771.8	767.6	767.6	766.8	764.6	763.1	762.3	760.4	759.6
7.5°	771.4	766.8	764.2	761.5	758.1	756.6	753.9	752.7	750.2	748.2	747.1
10°	763.1	760.1	756.6	752.4	749.7	746.7	743.6	741.4	737.9	736.0	734.5
12.5°	757.4	752.7	749.7	745.2	740.6	737.9	733.7	731.1	727.6	723.8	721.6
15°	752.1	747.1	742.8	737.9	732.9	729.9	724.9	721.9	717.0	713.2	710.6
17.5°	744.1	739.8	735.3	729.2	724.6	720.8	715.5	711.7	707.1	702.1	699.5
20°	735.6	730.7	726.2	720.0	715.5	710.9	705.6	701.4	696.0	691.5	688.5
22.5°	724.6	718.9	715.1	709.0	703.7	698.7	693.8	688.8	683.9	680.1	676.7
25°	708.6	702.6	698.4	693.4	688.5	684.7	678.6	675.6	670.6	667.1	663.8
27.5°	685.8	681.2	677.5	672.5	668.2	665.2	660.7	657.7	653.4	650.4	647.8
30°	652.3	648.4	645.1	640.1	637.1	634.4	630.2	627.5	624.5	621.1	620.3
32.5°	607.4	604.4	601.0	597.5	595.2	593.7	590.3	588.7	585.7	583.8	581.8
35°	539.7	537.0	535.1	533.6	532.8	533.1	532.5	533.9	534.7	534.4	534.7
37.5°	451.0	449.4	450.2	451.4	455.2	460.1	464.6	471.5	476.1	480.7	484.9
40°	352.0	353.1	356.2	363.0	372.9	384.0	394.3	407.2	420.2	429.3	437.6
42.5°	265.6	269.1	276.6	286.5	301.4	317.8	333.8	352.8	368.4	383.6	394.3
45°	199.8	204.4	214.3	227.9	244.4	263.4	283.5	304.9	323.4	339.1	350.9
47.5°	155.7	159.9	169.8	184.2	204.4	224.2	245.1	267.2	286.5	301.8	312.1
50°	123.0	128.2	137.0	152.2	172.4	193.4	215.0	236.7	255.0	268.0	277.1
52.5°	96.6	101.6	110.0	126.0	146.5	167.4	187.6	208.9	224.9	237.5	243.6
55°	74.9	79.5	88.3	101.6	121.0	141.5	161.8	180.0	194.8	204.0	209.7
57.5°	57.0	60.5	66.6	79.9	97.4	116.4	133.5	151.9	163.2	169.8	173.6
60°	43.4	46.0	52.5	62.8	78.8	95.2	109.6	123.3	132.4	137.8	141.5
62.5°	32.7	35.8	40.4	49.1	61.3	74.6	86.7	97.1	104.6	108.1	110.7
65°	22.5	24.8	28.1	35.0	45.3	54.8	64.4	71.9	76.8	80.7	82.2
67.5°	16.8	18.2	20.1	25.5	32.7	40.4	46.8	52.1	57.5	59.0	61.6
70°	12.6	13.7	15.6	19.5	23.6	28.9	34.3	37.4	41.1	43.8	44.6
72.5°	8.0	8.3	10.2	12.6	16.0	19.5	22.8	25.5	27.8	29.4	30.0
75°	4.6	6.9	6.9	9.1	11.5	12.9	15.2	17.1	18.2	19.5	19.5
77.5°	3.0	4.2	4.6	5.7	6.9	8.8	10.7	11.8	12.9	13.3	13.3
80°	2.7	3.0	3.0	4.2	5.0	6.5	7.6	8.0	8.8	9.1	9.9
82.5°	1.1	1.6	1.9	3.0	3.4	3.4	4.6	5.0	5.7	6.1	6.1
85°	0.3	0.8	0.8	1.1	1.9	2.2	2.7	3.0	3.4	3.4	3.8
87.5°	0.3	0.3	0.0	0.3	0.8	0.8	1.6	1.6	1.6	2.2	2.2
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°	779.4	779.4	779.4	779.4	779.4	779.4	779.4
2.5°	772.5	773.0	771.4	771.1	770.3	770.6	771.4
5°	758.5	758.8	757.4	755.8	755.8	755.4	755.8
7.5°	745.2	745.5	743.3	742.5	740.9	741.4	741.4
10°	731.8	731.8	728.4	728.0	726.9	726.5	726.5
12.5°	718.9	717.8	715.1	713.6	714.4	712.0	712.0
15°	707.5	705.6	702.1	701.0	699.1	698.4	698.4
17.5°	695.7	694.1	691.1	688.8	686.6	686.1	686.6
20°	684.2	682.8	678.9	677.5	675.6	675.6	674.8
22.5°	672.9	671.3	667.9	666.8	664.1	664.1	664.4
25°	661.1	659.9	656.1	655.3	655.0	653.4	654.2
27.5°	645.1	644.3	641.2	640.1	638.6	638.2	639.0
30°	615.7	614.6	612.3	611.2	608.5	609.0	609.6
32.5°	579.3	577.7	574.6	573.5	571.3	570.5	570.8
35°	533.6	532.5	529.8	529.8	527.5	526.7	527.5
37.5°	487.1	488.2	487.1	488.2	487.1	486.8	487.1
40°	443.4	447.5	448.3	452.5	451.0	453.3	452.9
42.5°	401.5	408.4	411.1	414.4	413.7	415.2	416.4
45°	359.2	365.0	367.7	369.9	370.3	371.0	371.5
47.5°	319.3	323.9	324.2	326.9	326.5	326.5	327.7
50°	282.0	285.1	285.8	287.7	286.2	285.4	285.8
52.5°	247.4	250.4	249.6	250.4	248.5	247.7	248.2
55°	212.0	213.5	213.5	213.5	211.3	211.3	211.3
57.5°	175.8	176.2	175.5	175.8	175.5	173.1	172.8
60°	142.8	142.8	142.3	142.8	141.5	140.4	140.4
62.5°	111.5	112.3	113.7	112.3	111.5	112.3	111.2
65°	83.4	84.8	84.5	85.3	84.8	84.8	84.1
67.5°	62.8	63.2	63.6	63.9	63.9	63.9	63.9
70°	46.0	47.2	46.8	46.8	46.8	46.8	49.1
72.5°	30.8	32.4	32.0	32.7	32.7	33.5	32.7
75°	20.9	22.5	21.7	22.8	22.5	21.7	23.6
77.5°	14.1	14.8	15.2	15.6	15.2	14.8	15.2
80°	9.9	10.7	10.2	10.7	10.7	10.7	11.0
82.5°	6.1	7.2	6.9	7.2	6.9	7.2	7.2
85°	4.2	4.6	3.8	4.6	4.2	4.2	5.0
87.5°	2.7	2.2	2.2	2.7	2.2	2.7	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)