

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: P245005

Luminaire Tested: **LSR8B15D010 EC8B15950 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245005  
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 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1412.0 lumens  
Efficiency: N/A  
Efficacy: 98.1 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

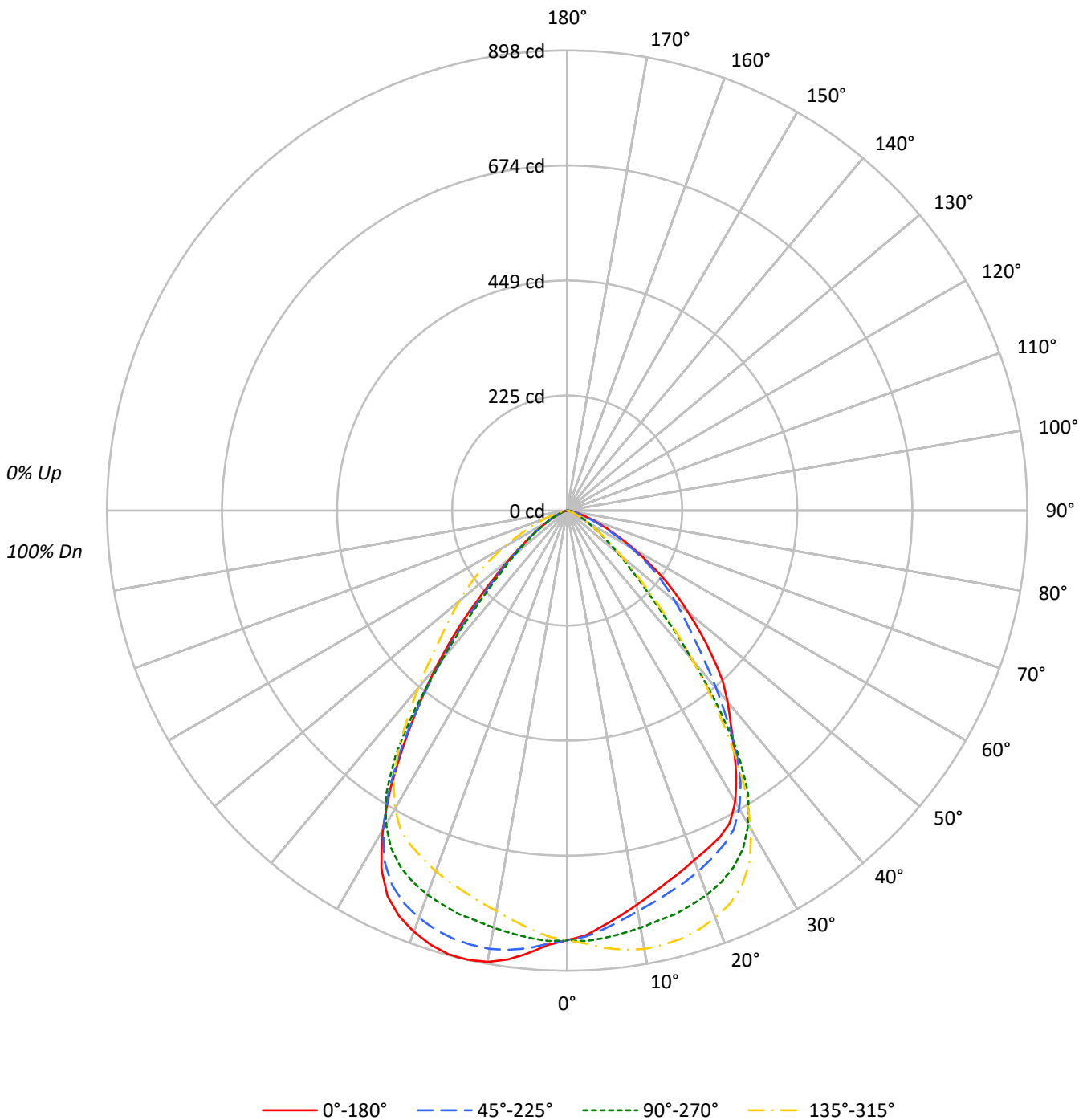
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	25850	25850	25850	25850
5°	25163	25909	26834	25909
10°	24467	25876	28002	25876
15°	23978	26028	28617	26028
20°	23814	26177	28690	26177
25°	23939	26127	28230	26127
30°	23347	25170	25623	25170
35°	21356	21958	20832	21958
40°	19608	15272	15949	15272
45°	17422	9319	10780	9319
50°	14747	6222	6913	6222
55°	12215	4247	4489	4247
60°	9313	2825	2849	2825
65°	6603	1758	1613	1758
70°	4760	1181	1073	1181
75°	3026	584	488	584
80°	2113	444	355	444
85°	1875	0	142	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.8	5.7
10°-20°	231.0	16.4
20°-30°	349.9	24.8
30°-40°	350.6	24.8
40°-50°	220.2	15.6
50°-60°	117.3	8.3
60°-70°	48.2	3.4
70°-80°	12.8	0.9
80°-90°	2.2	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°	660.7	46.8
0°-40°	1011.3	71.6
0°-60°	1348.9	95.5
0°-90°	1412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	838	838	838	838	838	
5°	813	837	867	837	813	77
15°	751	815	896	815	751	212
25°	704	768	830	768	704	323
35°	567	583	553	583	567	355
45°	400	214	247	214	400	307
55°	227	79	84	79	227	203
65°	90	24	22	24	90	94
75°	25	5	4	5	25	29
85°	5	0	0	0	5	6
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°	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3
2.5°	829.7	828.8	828.4	829.3	829.7	831.3	830.9	831.7	831.7	832.1	832.9
5°	812.9	812.5	812.9	812.9	814.5	816.2	815.8	817.0	817.8	819.8	820.7
7.5°	797.3	797.3	796.9	798.6	799.4	801.8	801.4	803.5	804.7	806.7	809.6
10°	781.4	781.4	781.8	783.0	783.4	787.1	787.1	790.0	791.6	793.6	797.3
12.5°	765.8	765.8	768.3	767.5	769.1	771.9	773.2	776.0	778.5	782.6	786.3
15°	751.1	751.1	751.9	753.9	755.2	758.9	760.9	764.2	767.0	771.1	776.5
17.5°	738.4	738.0	738.4	740.8	743.3	746.6	748.2	752.3	755.2	760.5	765.4
20°	725.7	726.5	726.5	728.6	730.2	734.3	735.9	740.4	743.7	748.6	754.4
22.5°	714.7	714.2	714.2	717.1	718.3	722.0	723.6	727.7	731.4	735.5	740.8
25°	703.6	702.8	704.4	704.8	705.6	709.7	711.0	713.8	717.5	721.2	726.5
27.5°	687.2	686.4	686.8	688.5	689.7	693.0	693.8	696.6	699.5	702.8	707.3
30°	655.7	654.9	654.5	657.4	658.6	661.0	662.3	667.2	668.0	671.7	674.9
32.5°	614.0	613.5	614.4	616.8	618.0	621.3	623.0	625.8	627.9	629.9	633.2
35°	567.3	566.5	567.3	569.8	569.8	572.6	573.9	575.1	574.7	575.1	574.3
37.5°	523.9	523.5	523.9	525.1	523.9	525.1	523.9	521.5	517.0	512.0	507.1
40°	487.1	487.5	485.0	486.7	482.2	481.3	476.8	470.7	461.7	451.9	438.0
42.5°	447.8	446.6	444.9	445.7	442.1	439.2	431.8	424.0	412.6	396.2	379.4
45°	399.5	399.1	398.3	397.9	395.4	392.5	386.4	377.4	364.7	347.9	327.9
47.5°	352.4	351.2	351.2	351.6	348.7	348.3	343.4	335.6	324.6	308.2	287.3
50°	307.4	307.0	307.8	309.4	307.4	306.6	303.3	298.0	288.2	274.2	254.6
52.5°	266.9	266.5	267.3	269.3	268.5	269.3	266.1	262.0	255.4	241.9	224.7
55°	227.2	227.2	227.2	229.6	229.6	229.6	228.0	225.5	219.4	209.6	193.6
57.5°	185.8	186.2	188.7	189.1	188.7	189.5	189.1	186.6	182.6	175.6	163.3
60°	151.0	151.0	152.3	153.5	153.1	153.5	153.5	152.3	148.2	142.4	132.6
62.5°	119.5	120.7	119.9	120.7	122.4	120.7	119.9	119.1	116.2	112.6	104.4
65°	90.5	91.3	91.3	91.7	90.9	91.3	89.6	88.4	86.8	82.7	77.4
67.5°	68.8	68.8	68.8	68.8	68.3	67.9	67.5	66.3	63.4	61.8	56.1
70°	52.8	50.3	50.3	50.3	50.3	50.8	49.5	47.9	47.1	44.2	40.1
72.5°	35.2	36.0	35.2	35.2	34.4	34.8	33.2	32.3	31.5	29.9	27.4
75°	25.4	23.3	24.1	24.6	23.3	24.1	22.5	20.9	20.9	19.6	18.4
77.5°	16.4	16.0	16.4	16.8	16.4	16.0	15.1	14.3	14.3	13.9	12.7
80°	11.9	11.5	11.5	11.5	11.1	11.5	10.6	10.6	9.8	9.4	8.6
82.5°	7.8	7.8	7.4	7.8	7.4	7.8	6.6	6.6	6.6	6.1	5.3
85°	5.3	4.5	4.5	4.9	4.1	4.9	4.5	4.1	3.7	3.7	3.3
87.5°	2.5	2.9	2.5	2.9	2.5	2.5	2.9	2.5	2.5	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°	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3
2.5°	834.2	834.6	834.6	836.2	837.0	837.4	837.4	840.7	839.5	840.3	841.1
5°	822.3	824.7	825.6	825.6	830.1	831.7	833.3	837.0	837.4	839.9	842.8
7.5°	810.8	813.7	815.3	819.0	821.9	824.7	829.7	832.1	834.6	837.9	841.5
10°	799.8	803.1	806.3	809.2	813.7	817.4	820.7	826.4	829.3	833.8	838.7
12.5°	789.1	793.6	796.5	801.4	806.3	809.6	814.5	819.8	824.3	828.8	834.6
15°	779.7	785.1	788.3	793.6	799.0	803.5	808.8	815.3	818.6	823.9	829.3
17.5°	769.5	775.2	779.3	784.2	790.8	795.7	800.2	806.7	810.8	816.6	822.7
20°	758.9	764.6	769.5	774.4	781.0	785.9	791.2	797.7	802.2	808.0	812.9
22.5°	746.2	751.5	756.8	762.5	769.1	773.2	779.3	785.1	790.0	795.3	800.2
25°	729.8	736.3	740.4	745.8	751.1	755.6	762.1	767.9	771.9	776.9	781.4
27.5°	710.6	715.5	718.7	723.2	728.6	732.7	737.6	743.3	747.4	751.9	755.2
30°	677.8	682.3	685.2	688.5	693.8	697.5	701.6	706.9	709.7	713.0	715.9
32.5°	634.8	638.5	640.2	642.6	646.3	650.0	653.3	657.8	659.0	661.0	661.0
35°	572.6	573.4	573.0	573.9	575.5	577.5	580.4	583.3	584.9	584.9	583.7
37.5°	499.8	494.9	489.5	485.4	484.2	483.4	485.0	486.2	487.9	488.7	486.7
40°	424.0	413.0	401.1	390.5	383.1	379.8	378.6	379.4	379.4	382.3	382.3
42.5°	359.0	341.8	324.2	308.2	297.6	289.4	285.7	285.7	286.1	288.2	289.4
45°	304.9	283.2	262.8	245.2	230.4	219.8	214.9	213.7	213.3	214.1	216.9
47.5°	263.6	241.1	219.8	198.1	182.6	171.9	167.4	165.8	164.1	165.8	166.2
50°	231.3	207.9	185.4	163.7	147.3	137.9	132.2	129.7	129.3	129.3	130.2
52.5°	201.8	180.1	157.6	135.5	118.3	109.3	104.0	102.7	101.1	102.7	102.7
55°	173.9	152.3	130.2	109.3	95.0	85.6	80.6	79.0	78.2	79.4	79.4
57.5°	143.7	125.2	104.8	86.0	71.6	65.1	61.4	59.4	58.9	59.8	58.9
60°	117.9	102.3	84.7	67.5	56.5	49.5	46.7	45.8	45.0	45.8	45.8
62.5°	93.3	80.2	65.9	52.8	43.4	38.5	35.2	35.2	34.8	34.8	35.2
65°	69.2	58.9	48.7	37.7	30.3	26.6	24.1	24.1	23.7	24.1	23.7
67.5°	50.3	43.4	35.2	27.4	21.7	19.6	18.0	16.8	17.6	16.8	16.4
70°	36.8	31.1	25.4	20.9	16.8	14.7	13.5	13.1	12.3	12.3	12.3
72.5°	24.6	20.9	17.2	13.5	11.1	9.0	8.6	7.8	7.0	7.4	8.2
75°	16.4	13.9	12.3	9.8	7.4	7.4	4.9	4.9	4.1	4.9	3.7
77.5°	11.5	9.4	7.4	6.1	4.9	4.5	3.3	3.3	2.9	2.9	2.9
80°	8.2	7.0	5.3	4.5	3.3	3.3	2.9	2.5	2.0	2.0	2.5
82.5°	4.9	3.7	3.7	3.3	2.0	1.6	1.2	1.6	0.8	0.8	0.8
85°	2.9	2.5	2.0	1.2	0.8	0.8	0.4	0.0	0.4	0.4	0.0
87.5°	1.6	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°	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3
2.5°	843.2	842.8	843.6	843.6	846.0	845.6	846.9	846.9	846.0	846.4	848.1
5°	846.0	847.3	849.7	851.8	855.4	857.1	859.1	861.2	861.6	862.8	864.1
7.5°	846.0	850.1	853.0	856.7	861.6	864.5	869.0	872.6	874.3	876.3	878.8
10°	844.4	848.5	853.8	857.9	864.1	868.6	873.0	878.8	881.2	884.5	887.8
12.5°	841.1	845.6	851.4	856.7	863.6	867.7	873.5	878.8	882.5	887.0	890.7
15°	836.2	841.5	846.9	852.2	859.5	864.5	869.8	875.9	879.6	884.5	887.8
17.5°	828.4	834.2	839.1	844.0	850.9	856.7	861.6	867.3	871.0	875.1	879.6
20°	819.0	824.3	829.7	833.8	840.7	845.6	850.9	856.3	859.1	860.0	866.9
22.5°	807.2	810.8	814.9	821.5	825.6	830.1	835.0	839.9	842.8	847.3	849.7
25°	787.5	791.2	795.7	798.6	803.5	807.2	812.1	817.4	819.0	822.3	824.7
27.5°	760.1	762.1	764.2	766.6	769.5	771.5	774.4	776.9	778.5	780.1	781.8
30°	716.7	716.7	716.7	715.1	716.3	717.5	717.9	717.5	717.5	717.1	717.1
32.5°	659.4	656.1	652.4	649.2	647.9	646.3	645.5	644.2	642.2	641.0	641.4
35°	582.0	574.7	570.2	566.1	562.8	560.3	559.1	557.9	557.5	555.8	554.2
37.5°	485.4	480.1	476.8	474.4	471.5	469.1	469.5	469.9	471.1	470.3	470.7
40°	383.1	381.9	383.1	380.2	379.4	380.2	382.3	385.2	386.8	388.4	391.3
42.5°	291.4	293.5	296.3	296.3	297.6	299.2	301.7	306.2	308.6	311.5	314.8
45°	219.4	221.8	225.5	226.7	227.6	229.6	232.5	236.2	237.8	240.3	243.1
47.5°	169.0	170.7	172.7	174.8	176.8	177.6	180.5	180.5	182.6	184.2	185.0
50°	131.8	133.4	135.1	136.3	137.1	138.4	139.2	140.4	140.8	141.6	142.0
52.5°	103.1	105.2	105.2	106.0	107.2	108.5	108.1	108.5	108.9	108.9	110.1
55°	80.6	80.6	81.9	81.9	82.7	82.3	82.7	82.7	82.7	82.7	83.1
57.5°	60.2	60.6	61.8	61.0	60.6	61.4	60.6	61.4	61.0	61.8	60.6
60°	46.2	46.2	46.7	46.7	47.1	47.1	47.1	46.7	46.7	46.2	46.2
62.5°	34.8	35.2	35.6	35.2	35.2	35.2	34.8	34.8	34.4	34.0	34.0
65°	23.3	22.9	23.7	22.9	23.3	23.3	22.9	23.3	22.1	22.5	22.1
67.5°	16.8	16.4	16.0	16.4	16.0	15.6	15.6	16.0	16.4	15.1	15.1
70°	11.1	11.5	11.1	11.5	11.9	11.9	11.5	11.1	11.5	10.6	11.1
72.5°	7.0	7.0	7.0	7.0	7.0	7.4	7.4	7.4	6.6	6.6	6.1
75°	3.3	4.5	3.7	3.3	4.5	4.5	4.1	4.1	3.7	3.7	3.7
77.5°	3.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.5	2.0
80°	1.6	1.6	1.6	1.2	1.6	1.6	2.0	1.6	1.6	1.2	2.0
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°	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3
2.5°	847.7	847.3	847.7	848.1	847.7	847.3	847.7	848.1	846.4	846.0	846.9
5°	865.7	865.7	866.5	866.9	866.5	865.7	865.7	864.1	862.8	861.6	861.2
7.5°	881.2	882.1	882.9	883.3	882.9	882.1	881.2	878.8	876.3	874.3	872.6
10°	890.7	891.9	893.5	894.3	893.5	891.9	890.7	887.8	884.5	881.2	878.8
12.5°	894.7	896.0	898.0	897.6	898.0	896.0	894.7	890.7	887.0	882.5	878.8
15°	891.9	893.5	895.6	896.4	895.6	893.5	891.9	887.8	884.5	879.6	875.9
17.5°	882.9	885.3	886.6	887.8	886.6	885.3	882.9	879.6	875.1	871.0	867.3
20°	870.6	872.2	873.9	874.3	873.9	872.2	870.6	866.9	860.0	859.1	856.3
22.5°	853.0	854.2	857.9	856.7	857.9	854.2	853.0	849.7	847.3	842.8	839.9
25°	827.6	828.8	829.3	829.7	829.3	828.8	827.6	824.7	822.3	819.0	817.4
27.5°	783.8	783.8	784.6	785.1	784.6	783.8	783.8	781.8	780.1	778.5	776.9
30°	717.5	717.5	717.5	719.6	717.5	717.5	717.5	717.1	717.1	717.5	717.5
32.5°	641.0	640.2	639.3	640.2	639.3	640.2	641.0	641.4	641.0	642.2	644.2
35°	554.2	553.8	555.0	553.4	555.0	553.8	554.2	554.2	555.8	557.5	557.9
37.5°	471.1	470.3	471.9	470.3	471.9	470.3	471.1	470.7	470.3	471.1	469.9
40°	392.1	392.9	392.9	396.2	392.9	392.9	392.1	391.3	388.4	386.8	385.2
42.5°	316.4	318.9	318.0	320.5	318.0	318.9	316.4	314.8	311.5	308.6	306.2
45°	244.8	246.4	246.4	247.2	246.4	246.4	244.8	243.1	240.3	237.8	236.2
47.5°	187.9	187.9	187.9	188.3	187.9	187.9	187.9	185.0	184.2	182.6	180.5
50°	142.8	143.3	143.7	144.1	143.7	143.3	142.8	142.0	141.6	140.8	140.4
52.5°	109.7	110.1	109.3	110.1	109.3	110.1	109.7	110.1	108.9	108.9	108.5
55°	83.1	82.7	83.1	83.5	83.1	82.7	83.1	83.1	82.7	82.7	82.7
57.5°	61.0	60.2	60.2	60.2	60.2	60.2	61.0	60.6	61.8	61.0	61.4
60°	45.4	45.8	45.8	46.2	45.8	45.8	45.4	46.2	46.2	46.7	46.7
62.5°	33.6	34.8	34.0	34.8	34.0	34.8	33.6	34.0	34.0	34.4	34.8
65°	21.7	21.7	21.7	22.1	21.7	21.7	21.7	22.1	22.5	22.1	23.3
67.5°	14.7	15.1	16.0	15.6	16.0	15.1	14.7	15.1	15.1	16.4	16.0
70°	11.9	10.6	10.6	11.9	10.6	10.6	11.9	11.1	10.6	11.5	11.1
72.5°	7.0	6.1	7.0	7.0	7.0	6.1	7.0	6.1	6.6	6.6	7.4
75°	3.7	3.3	2.9	4.1	2.9	3.3	3.7	3.7	3.7	3.7	4.1
77.5°	2.5	2.0	2.9	2.9	2.9	2.0	2.5	2.0	2.5	2.0	2.5
80°	1.2	1.6	1.2	2.0	1.2	1.6	1.2	2.0	1.2	1.6	1.6
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°	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3
2.5°	846.9	845.6	846.0	843.6	843.6	842.8	843.2	841.1	840.3	839.5	840.7
5°	859.1	857.1	855.4	851.8	849.7	847.3	846.0	842.8	839.9	837.4	837.0
7.5°	869.0	864.5	861.6	856.7	853.0	850.1	846.0	841.5	837.9	834.6	832.1
10°	873.0	868.6	864.1	857.9	853.8	848.5	844.4	838.7	833.8	829.3	826.4
12.5°	873.5	867.7	863.6	856.7	851.4	845.6	841.1	834.6	828.8	824.3	819.8
15°	869.8	864.5	859.5	852.2	846.9	841.5	836.2	829.3	823.9	818.6	815.3
17.5°	861.6	856.7	850.9	844.0	839.1	834.2	828.4	822.7	816.6	810.8	806.7
20°	850.9	845.6	840.7	833.8	829.7	824.3	819.0	812.9	808.0	802.2	797.7
22.5°	835.0	830.1	825.6	821.5	814.9	810.8	807.2	800.2	795.3	790.0	785.1
25°	812.1	807.2	803.5	798.6	795.7	791.2	787.5	781.4	776.9	771.9	767.9
27.5°	774.4	771.5	769.5	766.6	764.2	762.1	760.1	755.2	751.9	747.4	743.3
30°	717.9	717.5	716.3	715.1	716.7	716.7	716.7	715.9	713.0	709.7	706.9
32.5°	645.5	646.3	647.9	649.2	652.4	656.1	659.4	661.0	661.0	659.0	657.8
35°	559.1	560.3	562.8	566.1	570.2	574.7	582.0	583.7	584.9	584.9	583.3
37.5°	469.5	469.1	471.5	474.4	476.8	480.1	485.4	486.7	488.7	487.9	486.2
40°	382.3	380.2	379.4	380.2	383.1	381.9	383.1	382.3	382.3	379.4	379.4
42.5°	301.7	299.2	297.6	296.3	296.3	293.5	291.4	289.4	288.2	286.1	285.7
45°	232.5	229.6	227.6	226.7	225.5	221.8	219.4	216.9	214.1	213.3	213.7
47.5°	180.5	177.6	176.8	174.8	172.7	170.7	169.0	166.2	165.8	164.1	165.8
50°	139.2	138.4	137.1	136.3	135.1	133.4	131.8	130.2	129.3	129.3	129.7
52.5°	108.1	108.5	107.2	106.0	105.2	105.2	103.1	102.7	102.7	101.1	102.7
55°	82.7	82.3	82.7	81.9	81.9	80.6	80.6	79.4	79.4	78.2	79.0
57.5°	60.6	61.4	60.6	61.0	61.8	60.6	60.2	58.9	59.8	58.9	59.4
60°	47.1	47.1	47.1	46.7	46.7	46.2	46.2	45.8	45.8	45.0	45.8
62.5°	34.8	35.2	35.2	35.2	35.6	35.2	34.8	35.2	34.8	34.8	35.2
65°	22.9	23.3	23.3	22.9	23.7	22.9	23.3	23.7	24.1	23.7	24.1
67.5°	15.6	15.6	16.0	16.4	16.0	16.4	16.8	16.4	16.8	17.6	16.8
70°	11.5	11.9	11.9	11.5	11.1	11.5	11.1	12.3	12.3	12.3	13.1
72.5°	7.4	7.4	7.0	7.0	7.0	7.0	7.0	8.2	7.4	7.0	7.8
75°	4.1	4.5	4.5	3.3	3.7	4.5	3.3	3.7	4.9	4.1	4.9
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.3	2.9	2.9	2.9	3.3
80°	2.0	1.6	1.6	1.2	1.6	1.6	1.6	2.5	2.0	2.0	2.5
82.5°	0.8	0.8	0.4	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	0.4	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°	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3
2.5°	837.4	837.4	837.0	836.2	834.6	834.6	834.2	832.9	832.1	831.7	831.7
5°	833.3	831.7	830.1	825.6	825.6	824.7	822.3	820.7	819.8	817.8	817.0
7.5°	829.7	824.7	821.9	819.0	815.3	813.7	810.8	809.6	806.7	804.7	803.5
10°	820.7	817.4	813.7	809.2	806.3	803.1	799.8	797.3	793.6	791.6	790.0
12.5°	814.5	809.6	806.3	801.4	796.5	793.6	789.1	786.3	782.6	778.5	776.0
15°	808.8	803.5	799.0	793.6	788.3	785.1	779.7	776.5	771.1	767.0	764.2
17.5°	800.2	795.7	790.8	784.2	779.3	775.2	769.5	765.4	760.5	755.2	752.3
20°	791.2	785.9	781.0	774.4	769.5	764.6	758.9	754.4	748.6	743.7	740.4
22.5°	779.3	773.2	769.1	762.5	756.8	751.5	746.2	740.8	735.5	731.4	727.7
25°	762.1	755.6	751.1	745.8	740.4	736.3	729.8	726.5	721.2	717.5	713.8
27.5°	737.6	732.7	728.6	723.2	718.7	715.5	710.6	707.3	702.8	699.5	696.6
30°	701.6	697.5	693.8	688.5	685.2	682.3	677.8	674.9	671.7	668.0	667.2
32.5°	653.3	650.0	646.3	642.6	640.2	638.5	634.8	633.2	629.9	627.9	625.8
35°	580.4	577.5	575.5	573.9	573.0	573.4	572.6	574.3	575.1	574.7	575.1
37.5°	485.0	483.4	484.2	485.4	489.5	494.9	499.8	507.1	512.0	517.0	521.5
40°	378.6	379.8	383.1	390.5	401.1	413.0	424.0	438.0	451.9	461.7	470.7
42.5°	285.7	289.4	297.6	308.2	324.2	341.8	359.0	379.4	396.2	412.6	424.0
45°	214.9	219.8	230.4	245.2	262.8	283.2	304.9	327.9	347.9	364.7	377.4
47.5°	167.4	171.9	182.6	198.1	219.8	241.1	263.6	287.3	308.2	324.6	335.6
50°	132.2	137.9	147.3	163.7	185.4	207.9	231.3	254.6	274.2	288.2	298.0
52.5°	104.0	109.3	118.3	135.5	157.6	180.1	201.8	224.7	241.9	255.4	262.0
55°	80.6	85.6	95.0	109.3	130.2	152.3	173.9	193.6	209.6	219.4	225.5
57.5°	61.4	65.1	71.6	86.0	104.8	125.2	143.7	163.3	175.6	182.6	186.6
60°	46.7	49.5	56.5	67.5	84.7	102.3	117.9	132.6	142.4	148.2	152.3
62.5°	35.2	38.5	43.4	52.8	65.9	80.2	93.3	104.4	112.6	116.2	119.1
65°	24.1	26.6	30.3	37.7	48.7	58.9	69.2	77.4	82.7	86.8	88.4
67.5°	18.0	19.6	21.7	27.4	35.2	43.4	50.3	56.1	61.8	63.4	66.3
70°	13.5	14.7	16.8	20.9	25.4	31.1	36.8	40.1	44.2	47.1	47.9
72.5°	8.6	9.0	11.1	13.5	17.2	20.9	24.6	27.4	29.9	31.5	32.3
75°	4.9	7.4	7.4	9.8	12.3	13.9	16.4	18.4	19.6	20.9	20.9
77.5°	3.3	4.5	4.9	6.1	7.4	9.4	11.5	12.7	13.9	14.3	14.3
80°	2.9	3.3	3.3	4.5	5.3	7.0	8.2	8.6	9.4	9.8	10.6
82.5°	1.2	1.6	2.0	3.3	3.7	3.7	4.9	5.3	6.1	6.6	6.6
85°	0.4	0.8	0.8	1.2	2.0	2.5	2.9	3.3	3.7	3.7	4.1
87.5°	0.4	0.4	0.0	0.4	0.8	0.8	1.6	1.6	1.6	2.5	2.5
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: P245005

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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	838.3	838.3	838.3	838.3	838.3	838.3	838.3
2.5°	830.9	831.3	829.7	829.3	828.4	828.8	829.7
5°	815.8	816.2	814.5	812.9	812.9	812.5	812.9
7.5°	801.4	801.8	799.4	798.6	796.9	797.3	797.3
10°	787.1	787.1	783.4	783.0	781.8	781.4	781.4
12.5°	773.2	771.9	769.1	767.5	768.3	765.8	765.8
15°	760.9	758.9	755.2	753.9	751.9	751.1	751.1
17.5°	748.2	746.6	743.3	740.8	738.4	738.0	738.4
20°	735.9	734.3	730.2	728.6	726.5	726.5	725.7
22.5°	723.6	722.0	718.3	717.1	714.2	714.2	714.7
25°	711.0	709.7	705.6	704.8	704.4	702.8	703.6
27.5°	693.8	693.0	689.7	688.5	686.8	686.4	687.2
30°	662.3	661.0	658.6	657.4	654.5	654.9	655.7
32.5°	623.0	621.3	618.0	616.8	614.4	613.5	614.0
35°	573.9	572.6	569.8	569.8	567.3	566.5	567.3
37.5°	523.9	525.1	523.9	525.1	523.9	523.5	523.9
40°	476.8	481.3	482.2	486.7	485.0	487.5	487.1
42.5°	431.8	439.2	442.1	445.7	444.9	446.6	447.8
45°	386.4	392.5	395.4	397.9	398.3	399.1	399.5
47.5°	343.4	348.3	348.7	351.6	351.2	351.2	352.4
50°	303.3	306.6	307.4	309.4	307.8	307.0	307.4
52.5°	266.1	269.3	268.5	269.3	267.3	266.5	266.9
55°	228.0	229.6	229.6	229.6	227.2	227.2	227.2
57.5°	189.1	189.5	188.7	189.1	188.7	186.2	185.8
60°	153.5	153.5	153.1	153.5	152.3	151.0	151.0
62.5°	119.9	120.7	122.4	120.7	119.9	120.7	119.5
65°	89.6	91.3	90.9	91.7	91.3	91.3	90.5
67.5°	67.5	67.9	68.3	68.8	68.8	68.8	68.8
70°	49.5	50.8	50.3	50.3	50.3	50.3	52.8
72.5°	33.2	34.8	34.4	35.2	35.2	36.0	35.2
75°	22.5	24.1	23.3	24.6	24.1	23.3	25.4
77.5°	15.1	16.0	16.4	16.8	16.4	16.0	16.4
80°	10.6	11.5	11.1	11.5	11.5	11.5	11.9
82.5°	6.6	7.8	7.4	7.8	7.4	7.8	7.8
85°	4.5	4.9	4.1	4.9	4.5	4.5	5.3
87.5°	2.9	2.5	2.5	2.9	2.5	2.9	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)