

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: P244951

Luminaire Tested: **LD8B15D010 ER8B15827 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244951  
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: LD8B15D010 ER8B15827 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1436.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 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

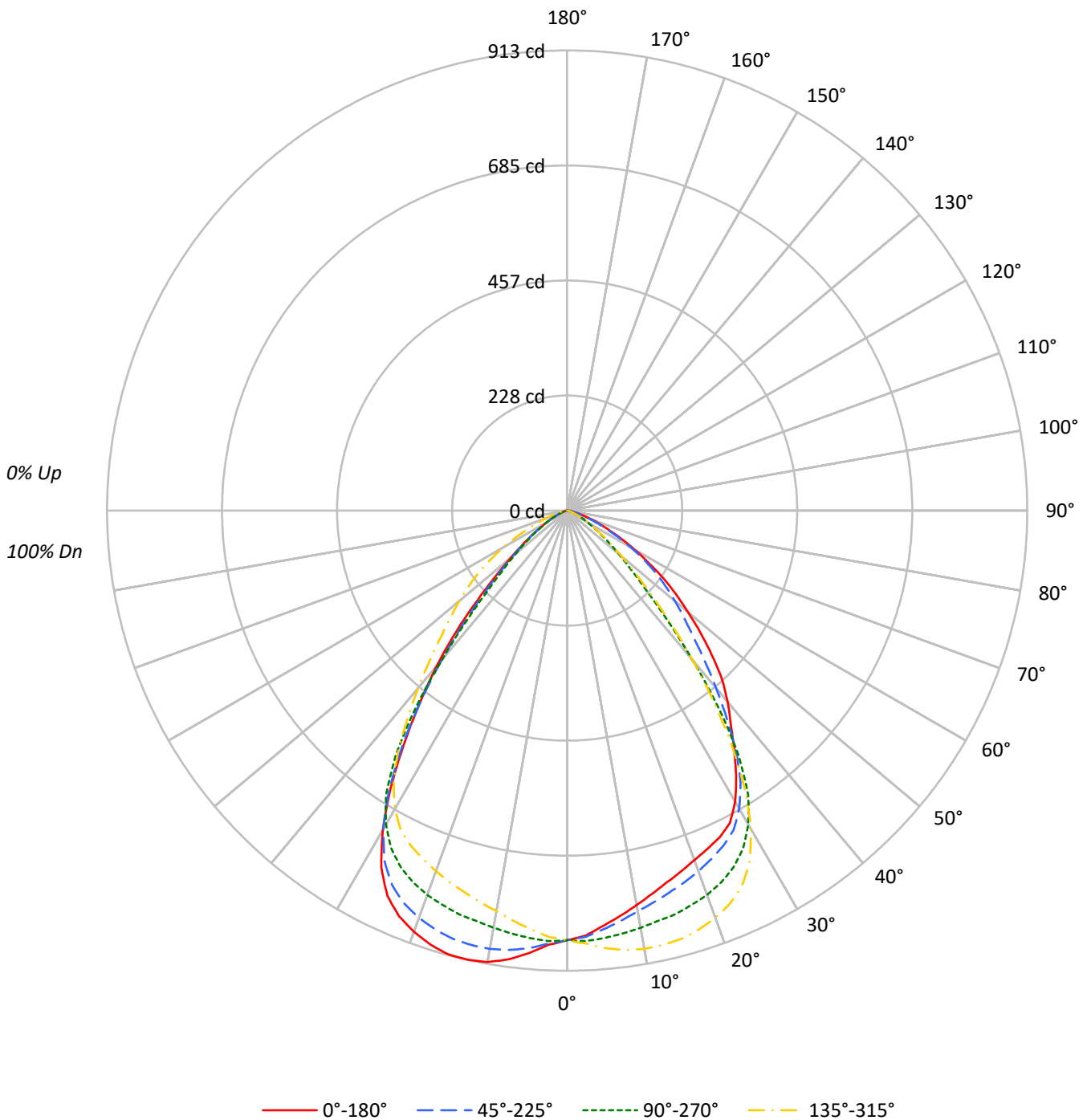
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	26288	26288	26288	26288
5°	25590	26351	27292	26351
10°	24881	26315	28478	26315
15°	24384	26471	29102	26471
20°	24218	26623	29176	26623
25°	24348	26569	28710	26569
30°	23743	25598	26057	25598
35°	21717	22331	21186	22331
40°	19942	15534	16222	15534
45°	17718	9476	10963	9476
50°	14996	6328	7028	6328
55°	12419	4317	4564	4317
60°	9473	2874	2899	2874
65°	6713	1795	1642	1795
70°	4842	1199	1091	1199
75°	3074	596	500	596
80°	2149	444	373	444
85°	1911	0	142	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.1	5.7
10°-20°	235.0	16.4
20°-30°	355.8	24.8
30°-40°	356.6	24.8
40°-50°	223.9	15.6
50°-60°	119.3	8.3
60°-70°	49.1	3.4
70°-80°	13.0	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°	671.9	46.8
0°-40°	1028.5	71.6
0°-60°	1371.8	95.5
0°-90°	1436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1436.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	852	852	852	852	852	
5°	827	851	882	851	827	78
15°	764	829	912	829	764	216
25°	716	781	844	781	716	328
35°	577	593	563	593	577	361
45°	406	217	251	217	406	312
55°	231	80	85	80	231	206
65°	92	25	22	25	92	95
75°	26	5	4	5	26	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°	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5
2.5°	843.8	842.9	842.5	843.4	843.8	845.4	845.0	845.8	845.8	846.3	847.1
5°	826.7	826.3	826.7	826.7	828.4	830.0	829.6	830.9	831.7	833.8	834.6
7.5°	810.9	810.9	810.5	812.1	813.0	815.5	815.0	817.1	818.4	820.5	823.4
10°	794.6	794.6	795.1	796.3	796.7	800.5	800.5	803.4	805.0	807.1	810.9
12.5°	778.8	778.8	781.3	780.5	782.2	785.1	786.3	789.2	791.7	795.9	799.7
15°	763.8	763.8	764.7	766.8	768.0	771.8	773.8	777.2	780.1	784.2	789.7
17.5°	750.9	750.5	750.9	753.4	755.9	759.3	760.9	765.1	768.0	773.4	778.4
20°	738.0	738.9	738.9	740.9	742.6	746.8	748.4	753.0	756.4	761.3	767.2
22.5°	726.8	726.4	726.4	729.3	730.5	734.3	735.9	740.1	743.9	748.0	753.4
25°	715.6	714.7	716.4	716.8	717.6	721.8	723.0	726.0	729.7	733.5	738.9
27.5°	698.9	698.1	698.5	700.2	701.4	704.7	705.6	708.5	711.4	714.7	719.3
30°	666.8	666.0	665.6	668.5	669.8	672.3	673.5	678.5	679.3	683.1	686.4
32.5°	624.4	624.0	624.8	627.3	628.6	631.9	633.6	636.5	638.5	640.6	644.0
35°	576.9	576.1	576.9	579.4	579.4	582.4	583.6	584.8	584.4	584.8	584.0
37.5°	532.8	532.4	532.8	534.1	532.8	534.1	532.8	530.3	525.7	520.7	515.7
40°	495.4	495.8	493.3	494.9	490.4	489.5	485.0	478.7	469.6	459.6	445.4
42.5°	455.4	454.1	452.5	453.3	449.6	446.6	439.2	431.3	419.6	403.0	385.9
45°	406.3	405.9	405.0	404.6	402.1	399.2	392.9	383.8	370.9	353.8	333.4
47.5°	358.4	357.2	357.2	357.6	354.7	354.2	349.2	341.3	330.1	313.4	292.2
50°	312.6	312.2	313.0	314.7	312.6	311.8	308.5	303.0	293.1	278.9	258.9
52.5°	271.4	271.0	271.8	273.9	273.1	273.9	270.6	266.4	259.7	246.0	228.5
55°	231.0	231.0	231.0	233.5	233.5	233.5	231.9	229.4	223.1	213.1	196.9
57.5°	189.0	189.4	191.9	192.3	191.9	192.7	192.3	189.8	185.7	178.6	166.1
60°	153.6	153.6	154.9	156.1	155.7	156.1	156.1	154.9	150.7	144.9	134.9
62.5°	121.5	122.8	122.0	122.8	124.5	122.8	122.0	121.1	118.2	114.5	106.1
65°	92.0	92.8	92.8	93.2	92.4	92.8	91.2	89.9	88.3	84.1	78.7
67.5°	69.9	69.9	69.9	69.9	69.5	69.1	68.7	67.4	64.5	62.9	57.0
70°	53.7	51.2	51.2	51.2	51.2	51.6	50.4	48.7	47.9	45.0	40.8
72.5°	35.8	36.6	35.8	35.8	35.0	35.4	33.7	32.9	32.1	30.4	27.9
75°	25.8	23.7	24.6	25.0	23.7	24.6	22.9	21.2	21.2	20.0	18.7
77.5°	16.7	16.2	16.7	17.1	16.7	16.2	15.4	14.6	14.6	14.2	12.9
80°	12.1	11.7	11.7	11.7	11.2	11.7	10.8	10.8	10.0	9.6	8.7
82.5°	7.9	7.9	7.5	7.9	7.5	7.9	6.7	6.7	6.7	6.2	5.4
85°	5.4	4.6	4.6	5.0	4.2	5.0	4.6	4.2	3.8	3.8	3.3
87.5°	2.5	2.9	2.5	2.9	2.5	2.5	2.9	2.5	2.5	1.7	1.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5
2.5°	848.3	848.8	848.8	850.4	851.3	851.7	851.7	855.0	853.8	854.6	855.4
5°	836.3	838.8	839.6	839.6	844.2	845.8	847.5	851.3	851.7	854.2	857.1
7.5°	824.6	827.5	829.2	832.9	835.9	838.8	843.8	846.3	848.8	852.1	855.8
10°	813.4	816.7	820.0	823.0	827.5	831.3	834.6	840.4	843.4	847.9	852.9
12.5°	802.6	807.1	810.1	815.0	820.0	823.4	828.4	833.8	838.4	842.9	848.8
15°	793.0	798.4	801.7	807.1	812.6	817.1	822.5	829.2	832.5	837.9	843.4
17.5°	782.6	788.4	792.6	797.6	804.2	809.2	813.8	820.5	824.6	830.4	836.7
20°	771.8	777.6	782.6	787.6	794.2	799.2	804.6	811.3	815.9	821.7	826.7
22.5°	758.9	764.3	769.7	775.5	782.2	786.3	792.6	798.4	803.4	808.8	813.8
25°	742.2	748.9	753.0	758.4	763.8	768.4	775.1	780.9	785.1	790.1	794.6
27.5°	722.6	727.6	731.0	735.5	740.9	745.1	750.1	755.9	760.1	764.7	768.0
30°	689.3	693.9	696.8	700.2	705.6	709.3	713.5	718.9	721.8	725.1	728.0
32.5°	645.6	649.4	651.0	653.5	657.3	661.0	664.4	668.9	670.2	672.3	672.3
35°	582.4	583.2	582.8	583.6	585.3	587.3	590.3	593.2	594.8	594.8	593.6
37.5°	508.3	503.3	497.9	493.7	492.4	491.6	493.3	494.5	496.2	497.0	494.9
40°	431.3	420.0	407.9	397.1	389.6	386.3	385.0	385.9	385.9	388.8	388.8
42.5°	365.1	347.6	329.7	313.4	302.6	294.3	290.6	290.6	291.0	293.1	294.3
45°	310.1	288.1	267.2	249.3	234.4	223.5	218.5	217.3	216.9	217.7	220.6
47.5°	268.1	245.2	223.5	201.5	185.7	174.8	170.3	168.6	166.9	168.6	169.0
50°	235.2	211.5	188.6	166.5	149.9	140.3	134.4	131.9	131.5	131.5	132.4
52.5°	205.2	183.2	160.3	137.8	120.3	111.1	105.7	104.5	102.8	104.5	104.5
55°	176.9	154.9	132.4	111.1	96.6	87.0	82.0	80.3	79.5	80.8	80.8
57.5°	146.1	127.4	106.6	87.4	72.9	66.2	62.4	60.4	59.9	60.8	59.9
60°	119.9	104.1	86.2	68.7	57.4	50.4	47.5	46.6	45.8	46.6	46.6
62.5°	94.9	81.6	67.0	53.7	44.1	39.1	35.8	35.8	35.4	35.4	35.8
65°	70.4	59.9	49.5	38.3	30.8	27.1	24.6	24.6	24.1	24.6	24.1
67.5°	51.2	44.1	35.8	27.9	22.1	20.0	18.3	17.1	17.9	17.1	16.7
70°	37.5	31.6	25.8	21.2	17.1	15.0	13.7	13.3	12.5	12.5	12.5
72.5°	25.0	21.2	17.5	13.7	11.2	9.1	8.7	7.9	7.1	7.5	8.3
75°	16.7	14.2	12.5	10.0	7.5	7.5	5.0	5.0	4.2	5.0	3.8
77.5°	11.7	9.6	7.5	6.2	5.0	4.6	3.3	3.3	2.9	2.9	2.9
80°	8.3	7.1	5.4	4.6	3.3	3.3	2.9	2.5	2.1	2.1	2.5
82.5°	5.0	3.8	3.8	3.3	2.1	1.7	1.3	1.7	0.8	0.8	0.8
85°	2.9	2.5	2.1	1.3	0.8	0.8	0.4	0.0	0.4	0.4	0.0
87.5°	1.7	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°	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5
2.5°	857.5	857.1	857.9	857.9	860.4	860.0	861.2	861.2	860.4	860.8	862.5
5°	860.4	861.7	864.2	866.2	870.0	871.7	873.7	875.8	876.2	877.5	878.7
7.5°	860.4	864.6	867.5	871.2	876.2	879.2	883.7	887.5	889.1	891.2	893.7
10°	858.7	862.9	868.3	872.5	878.7	883.3	887.9	893.7	896.2	899.5	902.9
12.5°	855.4	860.0	865.8	871.2	878.3	882.5	888.3	893.7	897.5	902.0	905.8
15°	850.4	855.8	861.2	866.7	874.1	879.2	884.6	890.8	894.6	899.5	902.9
17.5°	842.5	848.3	853.3	858.3	865.4	871.2	876.2	882.1	885.8	890.0	894.6
20°	832.9	838.4	843.8	847.9	855.0	860.0	865.4	870.8	873.7	874.6	881.7
22.5°	820.9	824.6	828.8	835.4	839.6	844.2	849.2	854.2	857.1	861.7	864.2
25°	800.9	804.6	809.2	812.1	817.1	820.9	825.9	831.3	832.9	836.3	838.8
27.5°	773.0	775.1	777.2	779.7	782.6	784.7	787.6	790.1	791.7	793.4	795.1
30°	728.9	728.9	728.9	727.2	728.5	729.7	730.1	729.7	729.7	729.3	729.3
32.5°	670.6	667.3	663.5	660.2	658.9	657.3	656.4	655.2	653.1	651.9	652.3
35°	591.9	584.4	579.9	575.7	572.4	569.9	568.6	567.4	567.0	565.3	563.6
37.5°	493.7	488.3	485.0	482.5	479.5	477.0	477.4	477.9	479.1	478.3	478.7
40°	389.6	388.4	389.6	386.7	385.9	386.7	388.8	391.7	393.4	395.0	397.9
42.5°	296.4	298.5	301.4	301.4	302.6	304.3	306.8	311.4	313.9	316.8	320.1
45°	223.1	225.6	229.4	230.6	231.4	233.5	236.4	240.2	241.8	244.3	247.3
47.5°	171.9	173.6	175.7	177.7	179.8	180.7	183.6	183.6	185.7	187.3	188.1
50°	134.0	135.7	137.4	138.6	139.5	140.7	141.5	142.8	143.2	144.0	144.4
52.5°	104.9	107.0	107.0	107.8	109.1	110.3	109.9	110.3	110.7	110.7	112.0
55°	82.0	82.0	83.3	83.3	84.1	83.7	84.1	84.1	84.1	84.1	84.5
57.5°	61.2	61.6	62.9	62.0	61.6	62.4	61.6	62.4	62.0	62.9	61.6
60°	47.0	47.0	47.5	47.5	47.9	47.9	47.9	47.5	47.5	47.0	47.0
62.5°	35.4	35.8	36.2	35.8	35.8	35.8	35.4	35.4	35.0	34.5	34.5
65°	23.7	23.3	24.1	23.3	23.7	23.7	23.3	23.7	22.5	22.9	22.5
67.5°	17.1	16.7	16.2	16.7	16.2	15.8	15.8	16.2	16.7	15.4	15.4
70°	11.2	11.7	11.2	11.7	12.1	12.1	11.7	11.2	11.7	10.8	11.2
72.5°	7.1	7.1	7.1	7.1	7.1	7.5	7.5	7.5	6.7	6.7	6.2
75°	3.3	4.6	3.8	3.3	4.6	4.6	4.2	4.2	3.8	3.8	3.8
77.5°	3.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.1	2.5	2.1
80°	1.7	1.7	1.7	1.3	1.7	1.7	2.1	1.7	1.7	1.3	2.1
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°	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5
2.5°	862.1	861.7	862.1	862.5	862.1	861.7	862.1	862.5	860.8	860.4	861.2
5°	880.4	880.4	881.2	881.7	881.2	880.4	880.4	878.7	877.5	876.2	875.8
7.5°	896.2	897.1	897.9	898.3	897.9	897.1	896.2	893.7	891.2	889.1	887.5
10°	905.8	907.0	908.7	909.5	908.7	907.0	905.8	902.9	899.5	896.2	893.7
12.5°	910.0	911.2	913.3	912.9	913.3	911.2	910.0	905.8	902.0	897.5	893.7
15°	907.0	908.7	910.8	911.6	910.8	908.7	907.0	902.9	899.5	894.6	890.8
17.5°	897.9	900.4	901.6	902.9	901.6	900.4	897.9	894.6	890.0	885.8	882.1
20°	885.4	887.1	888.7	889.1	888.7	887.1	885.4	881.7	874.6	873.7	870.8
22.5°	867.5	868.8	872.5	871.2	872.5	868.8	867.5	864.2	861.7	857.1	854.2
25°	841.7	842.9	843.4	843.8	843.4	842.9	841.7	838.8	836.3	832.9	831.3
27.5°	797.1	797.1	798.0	798.4	798.0	797.1	797.1	795.1	793.4	791.7	790.1
30°	729.7	729.7	729.7	731.8	729.7	729.7	729.7	729.3	729.3	729.7	729.7
32.5°	651.9	651.0	650.2	651.0	650.2	651.0	651.9	652.3	651.9	653.1	655.2
35°	563.6	563.2	564.5	562.8	564.5	563.2	563.6	563.6	565.3	567.0	567.4
37.5°	479.1	478.3	480.0	478.3	480.0	478.3	479.1	478.7	478.3	479.1	477.9
40°	398.8	399.6	399.6	403.0	399.6	399.6	398.8	397.9	395.0	393.4	391.7
42.5°	321.8	324.3	323.4	325.9	323.4	324.3	321.8	320.1	316.8	313.9	311.4
45°	248.9	250.6	250.6	251.4	250.6	250.6	248.9	247.3	244.3	241.8	240.2
47.5°	191.1	191.1	191.1	191.5	191.1	191.1	191.1	188.1	187.3	185.7	183.6
50°	145.3	145.7	146.1	146.5	146.1	145.7	145.3	144.4	144.0	143.2	142.8
52.5°	111.6	112.0	111.1	112.0	111.1	112.0	111.6	112.0	110.7	110.7	110.3
55°	84.5	84.1	84.5	84.9	84.5	84.1	84.5	84.5	84.1	84.1	84.1
57.5°	62.0	61.2	61.2	61.2	61.2	61.2	62.0	61.6	62.9	62.0	62.4
60°	46.2	46.6	46.6	47.0	46.6	46.6	46.2	47.0	47.0	47.5	47.5
62.5°	34.1	35.4	34.5	35.4	34.5	35.4	34.1	34.5	34.5	35.0	35.4
65°	22.1	22.1	22.1	22.5	22.1	22.1	22.1	22.5	22.9	22.5	23.7
67.5°	15.0	15.4	16.2	15.8	16.2	15.4	15.0	15.4	15.4	16.7	16.2
70°	12.1	10.8	10.8	12.1	10.8	10.8	12.1	11.2	10.8	11.7	11.2
72.5°	7.1	6.2	7.1	7.1	7.1	6.2	7.1	6.2	6.7	6.7	7.5
75°	3.8	3.3	2.9	4.2	2.9	3.3	3.8	3.8	3.8	3.8	4.2
77.5°	2.5	2.1	2.9	2.9	2.9	2.1	2.5	2.1	2.5	2.1	2.5
80°	1.3	1.7	1.3	2.1	1.3	1.7	1.3	2.1	1.3	1.7	1.7
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°	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5
2.5°	861.2	860.0	860.4	857.9	857.9	857.1	857.5	855.4	854.6	853.8	855.0
5°	873.7	871.7	870.0	866.2	864.2	861.7	860.4	857.1	854.2	851.7	851.3
7.5°	883.7	879.2	876.2	871.2	867.5	864.6	860.4	855.8	852.1	848.8	846.3
10°	887.9	883.3	878.7	872.5	868.3	862.9	858.7	852.9	847.9	843.4	840.4
12.5°	888.3	882.5	878.3	871.2	865.8	860.0	855.4	848.8	842.9	838.4	833.8
15°	884.6	879.2	874.1	866.7	861.2	855.8	850.4	843.4	837.9	832.5	829.2
17.5°	876.2	871.2	865.4	858.3	853.3	848.3	842.5	836.7	830.4	824.6	820.5
20°	865.4	860.0	855.0	847.9	843.8	838.4	832.9	826.7	821.7	815.9	811.3
22.5°	849.2	844.2	839.6	835.4	828.8	824.6	820.9	813.8	808.8	803.4	798.4
25°	825.9	820.9	817.1	812.1	809.2	804.6	800.9	794.6	790.1	785.1	780.9
27.5°	787.6	784.7	782.6	779.7	777.2	775.1	773.0	768.0	764.7	760.1	755.9
30°	730.1	729.7	728.5	727.2	728.9	728.9	728.9	728.0	725.1	721.8	718.9
32.5°	656.4	657.3	658.9	660.2	663.5	667.3	670.6	672.3	672.3	670.2	668.9
35°	568.6	569.9	572.4	575.7	579.9	584.4	591.9	593.6	594.8	594.8	593.2
37.5°	477.4	477.0	479.5	482.5	485.0	488.3	493.7	494.9	497.0	496.2	494.5
40°	388.8	386.7	385.9	386.7	389.6	388.4	389.6	388.8	388.8	385.9	385.9
42.5°	306.8	304.3	302.6	301.4	301.4	298.5	296.4	294.3	293.1	291.0	290.6
45°	236.4	233.5	231.4	230.6	229.4	225.6	223.1	220.6	217.7	216.9	217.3
47.5°	183.6	180.7	179.8	177.7	175.7	173.6	171.9	169.0	168.6	166.9	168.6
50°	141.5	140.7	139.5	138.6	137.4	135.7	134.0	132.4	131.5	131.5	131.9
52.5°	109.9	110.3	109.1	107.8	107.0	107.0	104.9	104.5	104.5	102.8	104.5
55°	84.1	83.7	84.1	83.3	83.3	82.0	82.0	80.8	80.8	79.5	80.3
57.5°	61.6	62.4	61.6	62.0	62.9	61.6	61.2	59.9	60.8	59.9	60.4
60°	47.9	47.9	47.9	47.5	47.5	47.0	47.0	46.6	46.6	45.8	46.6
62.5°	35.4	35.8	35.8	35.8	36.2	35.8	35.4	35.8	35.4	35.4	35.8
65°	23.3	23.7	23.7	23.3	24.1	23.3	23.7	24.1	24.6	24.1	24.6
67.5°	15.8	15.8	16.2	16.7	16.2	16.7	17.1	16.7	17.1	17.9	17.1
70°	11.7	12.1	12.1	11.7	11.2	11.7	11.2	12.5	12.5	12.5	13.3
72.5°	7.5	7.5	7.1	7.1	7.1	7.1	7.1	8.3	7.5	7.1	7.9
75°	4.2	4.6	4.6	3.3	3.8	4.6	3.3	3.8	5.0	4.2	5.0
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°	2.1	1.7	1.7	1.3	1.7	1.7	1.7	2.5	2.1	2.1	2.5
82.5°	0.8	0.8	0.4	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.7
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°	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5
2.5°	851.7	851.7	851.3	850.4	848.8	848.8	848.3	847.1	846.3	845.8	845.8
5°	847.5	845.8	844.2	839.6	839.6	838.8	836.3	834.6	833.8	831.7	830.9
7.5°	843.8	838.8	835.9	832.9	829.2	827.5	824.6	823.4	820.5	818.4	817.1
10°	834.6	831.3	827.5	823.0	820.0	816.7	813.4	810.9	807.1	805.0	803.4
12.5°	828.4	823.4	820.0	815.0	810.1	807.1	802.6	799.7	795.9	791.7	789.2
15°	822.5	817.1	812.6	807.1	801.7	798.4	793.0	789.7	784.2	780.1	777.2
17.5°	813.8	809.2	804.2	797.6	792.6	788.4	782.6	778.4	773.4	768.0	765.1
20°	804.6	799.2	794.2	787.6	782.6	777.6	771.8	767.2	761.3	756.4	753.0
22.5°	792.6	786.3	782.2	775.5	769.7	764.3	758.9	753.4	748.0	743.9	740.1
25°	775.1	768.4	763.8	758.4	753.0	748.9	742.2	738.9	733.5	729.7	726.0
27.5°	750.1	745.1	740.9	735.5	731.0	727.6	722.6	719.3	714.7	711.4	708.5
30°	713.5	709.3	705.6	700.2	696.8	693.9	689.3	686.4	683.1	679.3	678.5
32.5°	664.4	661.0	657.3	653.5	651.0	649.4	645.6	644.0	640.6	638.5	636.5
35°	590.3	587.3	585.3	583.6	582.8	583.2	582.4	584.0	584.8	584.4	584.8
37.5°	493.3	491.6	492.4	493.7	497.9	503.3	508.3	515.7	520.7	525.7	530.3
40°	385.0	386.3	389.6	397.1	407.9	420.0	431.3	445.4	459.6	469.6	478.7
42.5°	290.6	294.3	302.6	313.4	329.7	347.6	365.1	385.9	403.0	419.6	431.3
45°	218.5	223.5	234.4	249.3	267.2	288.1	310.1	333.4	353.8	370.9	383.8
47.5°	170.3	174.8	185.7	201.5	223.5	245.2	268.1	292.2	313.4	330.1	341.3
50°	134.4	140.3	149.9	166.5	188.6	211.5	235.2	258.9	278.9	293.1	303.0
52.5°	105.7	111.1	120.3	137.8	160.3	183.2	205.2	228.5	246.0	259.7	266.4
55°	82.0	87.0	96.6	111.1	132.4	154.9	176.9	196.9	213.1	223.1	229.4
57.5°	62.4	66.2	72.9	87.4	106.6	127.4	146.1	166.1	178.6	185.7	189.8
60°	47.5	50.4	57.4	68.7	86.2	104.1	119.9	134.9	144.9	150.7	154.9
62.5°	35.8	39.1	44.1	53.7	67.0	81.6	94.9	106.1	114.5	118.2	121.1
65°	24.6	27.1	30.8	38.3	49.5	59.9	70.4	78.7	84.1	88.3	89.9
67.5°	18.3	20.0	22.1	27.9	35.8	44.1	51.2	57.0	62.9	64.5	67.4
70°	13.7	15.0	17.1	21.2	25.8	31.6	37.5	40.8	45.0	47.9	48.7
72.5°	8.7	9.1	11.2	13.7	17.5	21.2	25.0	27.9	30.4	32.1	32.9
75°	5.0	7.5	7.5	10.0	12.5	14.2	16.7	18.7	20.0	21.2	21.2
77.5°	3.3	4.6	5.0	6.2	7.5	9.6	11.7	12.9	14.2	14.6	14.6
80°	2.9	3.3	3.3	4.6	5.4	7.1	8.3	8.7	9.6	10.0	10.8
82.5°	1.3	1.7	2.1	3.3	3.8	3.8	5.0	5.4	6.2	6.7	6.7
85°	0.4	0.8	0.8	1.3	2.1	2.5	2.9	3.3	3.8	3.8	4.2
87.5°	0.4	0.4	0.0	0.4	0.8	0.8	1.7	1.7	1.7	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



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	852.5	852.5	852.5	852.5	852.5	852.5	852.5
2.5°	845.0	845.4	843.8	843.4	842.5	842.9	843.8
5°	829.6	830.0	828.4	826.7	826.7	826.3	826.7
7.5°	815.0	815.5	813.0	812.1	810.5	810.9	810.9
10°	800.5	800.5	796.7	796.3	795.1	794.6	794.6
12.5°	786.3	785.1	782.2	780.5	781.3	778.8	778.8
15°	773.8	771.8	768.0	766.8	764.7	763.8	763.8
17.5°	760.9	759.3	755.9	753.4	750.9	750.5	750.9
20°	748.4	746.8	742.6	740.9	738.9	738.9	738.0
22.5°	735.9	734.3	730.5	729.3	726.4	726.4	726.8
25°	723.0	721.8	717.6	716.8	716.4	714.7	715.6
27.5°	705.6	704.7	701.4	700.2	698.5	698.1	698.9
30°	673.5	672.3	669.8	668.5	665.6	666.0	666.8
32.5°	633.6	631.9	628.6	627.3	624.8	624.0	624.4
35°	583.6	582.4	579.4	579.4	576.9	576.1	576.9
37.5°	532.8	534.1	532.8	534.1	532.8	532.4	532.8
40°	485.0	489.5	490.4	494.9	493.3	495.8	495.4
42.5°	439.2	446.6	449.6	453.3	452.5	454.1	455.4
45°	392.9	399.2	402.1	404.6	405.0	405.9	406.3
47.5°	349.2	354.2	354.7	357.6	357.2	357.2	358.4
50°	308.5	311.8	312.6	314.7	313.0	312.2	312.6
52.5°	270.6	273.9	273.1	273.9	271.8	271.0	271.4
55°	231.9	233.5	233.5	233.5	231.0	231.0	231.0
57.5°	192.3	192.7	191.9	192.3	191.9	189.4	189.0
60°	156.1	156.1	155.7	156.1	154.9	153.6	153.6
62.5°	122.0	122.8	124.5	122.8	122.0	122.8	121.5
65°	91.2	92.8	92.4	93.2	92.8	92.8	92.0
67.5°	68.7	69.1	69.5	69.9	69.9	69.9	69.9
70°	50.4	51.6	51.2	51.2	51.2	51.2	53.7
72.5°	33.7	35.4	35.0	35.8	35.8	36.6	35.8
75°	22.9	24.6	23.7	25.0	24.6	23.7	25.8
77.5°	15.4	16.2	16.7	17.1	16.7	16.2	16.7
80°	10.8	11.7	11.2	11.7	11.7	11.7	12.1
82.5°	6.7	7.9	7.5	7.9	7.5	7.9	7.9
85°	4.6	5.0	4.2	5.0	4.6	4.6	5.4
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)