

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: P244531

Luminaire Tested: **LSR8B15D010 EC8B15835 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244531
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 EC8B15835 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1544.0 lumens
Efficiency: N/A
Efficacy: 107.2 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

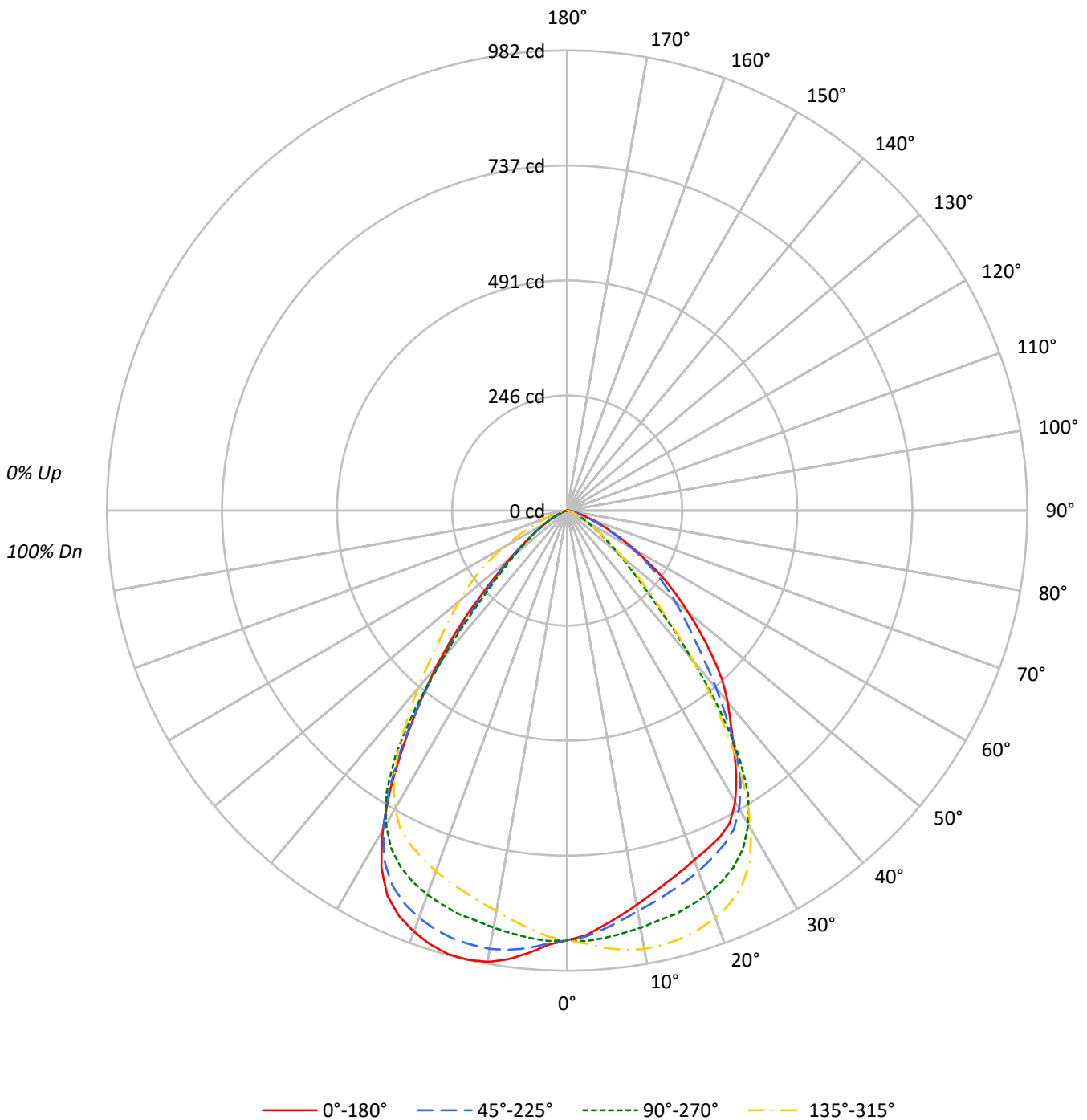
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	28265	28265	28265	28265
5°	27515	28332	29344	28332
10°	26753	28294	30620	28294
15°	26219	28464	31292	28464
20°	26039	28625	31371	28625
25°	26178	28567	30867	28567
30°	25530	27520	28015	27520
35°	23351	24009	22778	24009
40°	21439	16701	17442	16701
45°	19048	10187	11788	10187
50°	16124	6807	7556	6807
55°	13354	4645	4908	4645
60°	10188	3090	3121	3090
65°	7216	1926	1766	1926
70°	5202	1289	1172	1289
75°	3300	643	536	643
80°	2309	479	391	479
85°	2052	0	142	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	5.7
10°-20°	252.6	16.4
20°-30°	382.6	24.8
30°-40°	383.4	24.8
40°-50°	240.8	15.6
50°-60°	128.3	8.3
60°-70°	52.8	3.4
70°-80°	13.9	0.9
80°-90°	2.4	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°	722.5	46.8
0°-40°	1105.9	71.6
0°-60°	1474.9	95.5
0°-90°	1544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1544.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	917	917	917	917	917	
5°	889	915	948	915	889	84
15°	821	892	980	892	821	232
25°	769	840	907	840	769	353
35°	620	638	605	638	620	389
45°	437	234	270	234	437	336
55°	248	86	91	86	248	221
65°	99	26	24	26	99	103
75°	28	5	4	5	28	31
85°	6	0	0	0	6	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°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6
2.5°	907.2	906.3	905.9	906.8	907.2	909.0	908.6	909.5	909.5	909.9	910.8
5°	888.9	888.4	888.9	888.9	890.7	892.5	892.0	893.4	894.2	896.5	897.4
7.5°	871.9	871.9	871.4	873.2	874.1	876.8	876.3	878.6	879.9	882.2	885.3
10°	854.4	854.4	854.9	856.2	856.7	860.7	860.7	863.8	865.6	867.8	871.9
12.5°	837.4	837.4	840.1	839.2	841.0	844.1	845.5	848.6	851.3	855.8	859.8
15°	821.3	821.3	822.2	824.4	825.8	829.8	832.0	835.6	838.8	843.2	849.1
17.5°	807.4	807.0	807.4	810.1	812.8	816.4	818.2	822.6	825.8	831.6	837.0
20°	793.5	794.4	794.4	796.7	798.5	802.9	804.7	809.7	813.2	818.6	824.9
22.5°	781.5	781.0	781.0	784.1	785.5	789.5	791.3	795.8	799.8	804.3	810.1
25°	769.4	768.5	770.3	770.7	771.6	776.1	777.4	780.6	784.6	788.6	794.4
27.5°	751.5	750.6	751.0	752.8	754.2	757.7	758.6	761.8	764.9	768.5	773.4
30°	717.0	716.1	715.7	718.8	720.1	722.8	724.2	729.5	730.4	734.5	738.0
32.5°	671.3	670.9	671.8	674.5	675.8	679.4	681.2	684.3	686.6	688.8	692.4
35°	620.3	619.4	620.3	623.0	623.0	626.2	627.5	628.8	628.4	628.8	627.9
37.5°	572.9	572.4	572.9	574.2	572.9	574.2	572.9	570.2	565.3	559.9	554.5
40°	532.6	533.1	530.4	532.2	527.2	526.3	521.4	514.7	504.9	494.1	478.9
42.5°	489.6	488.3	486.5	487.4	483.4	480.2	472.2	463.7	451.1	433.3	414.9
45°	436.8	436.4	435.5	435.0	432.4	429.2	422.5	412.7	398.8	380.4	358.5
47.5°	385.4	384.0	384.0	384.5	381.3	380.9	375.5	367.0	354.9	337.0	314.2
50°	336.1	335.7	336.6	338.4	336.1	335.2	331.7	325.8	315.1	299.9	278.4
52.5°	291.8	291.4	292.3	294.5	293.6	294.5	290.9	286.4	279.3	264.5	245.7
55°	248.4	248.4	248.4	251.1	251.1	251.1	249.3	246.6	239.9	229.2	211.7
57.5°	203.2	203.6	206.3	206.8	206.3	207.2	206.8	204.1	199.6	192.0	178.6
60°	165.2	165.2	166.5	167.8	167.4	167.8	167.8	166.5	162.0	155.8	145.0
62.5°	130.7	132.0	131.1	132.0	133.8	132.0	131.1	130.2	127.1	123.1	114.1
65°	98.9	99.8	99.8	100.3	99.4	99.8	98.0	96.7	94.9	90.4	84.6
67.5°	75.2	75.2	75.2	75.2	74.7	74.3	73.9	72.5	69.4	67.6	61.3
70°	57.7	55.0	55.0	55.0	55.0	55.5	54.2	52.4	51.5	48.3	43.9
72.5°	38.5	39.4	38.5	38.5	37.6	38.0	36.3	35.4	34.5	32.7	30.0
75°	27.7	25.5	26.4	26.9	25.5	26.4	24.6	22.8	22.8	21.5	20.1
77.5°	17.9	17.5	17.9	18.3	17.9	17.5	16.6	15.7	15.7	15.2	13.9
80°	13.0	12.5	12.5	12.5	12.1	12.5	11.6	11.6	10.7	10.3	9.4
82.5°	8.5	8.5	8.1	8.5	8.1	8.5	7.2	7.2	7.2	6.7	5.8
85°	5.8	4.9	4.9	5.4	4.5	5.4	4.9	4.5	4.0	4.0	3.6
87.5°	2.7	3.1	2.7	3.1	2.7	2.7	3.1	2.7	2.7	1.8	1.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6
2.5°	912.1	912.6	912.6	914.4	915.3	915.7	915.7	919.3	918.0	918.9	919.8
5°	899.2	901.8	902.8	902.8	907.7	909.5	911.2	915.3	915.7	918.4	921.5
7.5°	886.6	889.8	891.6	895.6	898.7	901.8	907.2	909.9	912.6	916.2	920.2
10°	874.5	878.1	881.7	884.8	889.8	893.8	897.4	903.6	906.8	911.7	917.1
12.5°	862.9	867.8	871.0	876.3	881.7	885.3	890.7	896.5	901.4	906.3	912.6
15°	852.6	858.4	862.0	867.8	873.7	878.6	884.4	891.6	895.1	901.0	906.8
17.5°	841.4	847.7	852.2	857.5	864.7	870.1	875.0	882.2	886.6	892.9	899.6
20°	829.8	836.1	841.4	846.8	854.0	859.3	865.2	872.3	877.2	883.5	888.9
22.5°	815.9	821.7	827.6	833.8	841.0	845.5	852.2	858.4	863.8	869.6	875.0
25°	798.0	805.2	809.7	815.5	821.3	826.2	833.4	839.6	844.1	849.5	854.4
27.5°	777.0	782.4	785.9	790.9	796.7	801.2	806.5	812.8	817.3	822.2	825.8
30°	741.2	746.1	749.2	752.8	758.6	762.7	767.1	772.9	776.1	779.7	782.8
32.5°	694.2	698.2	700.0	702.7	706.7	710.7	714.3	719.2	720.6	722.8	722.8
35°	626.2	627.0	626.6	627.5	629.3	631.5	634.7	637.8	639.6	639.6	638.2
37.5°	546.5	541.1	535.3	530.8	529.5	528.6	530.4	531.7	533.5	534.4	532.2
40°	463.7	451.6	438.6	427.0	418.9	415.4	414.0	414.9	414.9	418.0	418.0
42.5°	392.5	373.7	354.5	337.0	325.4	316.4	312.4	312.4	312.8	315.1	316.4
45°	333.4	309.7	287.3	268.1	252.0	240.3	235.0	233.6	233.2	234.1	237.2
47.5°	288.2	263.6	240.3	216.6	199.6	188.0	183.1	181.3	179.5	181.3	181.7
50°	252.9	227.4	202.8	179.0	161.1	150.8	144.6	141.9	141.4	141.4	142.3
52.5°	220.6	196.9	172.3	148.2	129.3	119.5	113.7	112.3	110.6	112.3	112.3
55°	190.2	166.5	142.3	119.5	103.8	93.5	88.2	86.4	85.5	86.8	86.8
57.5°	157.1	137.0	114.6	94.0	78.3	71.2	67.1	64.9	64.4	65.3	64.4
60°	128.9	111.9	92.6	73.9	61.8	54.2	51.0	50.1	49.2	50.1	50.1
62.5°	102.0	87.7	72.0	57.7	47.4	42.1	38.5	38.5	38.0	38.0	38.5
65°	75.6	64.4	53.3	41.2	33.1	29.1	26.4	26.4	26.0	26.4	26.0
67.5°	55.0	47.4	38.5	30.0	23.7	21.5	19.7	18.3	19.3	18.3	17.9
70°	40.3	34.0	27.7	22.8	18.3	16.1	14.8	14.3	13.4	13.4	13.4
72.5°	26.9	22.8	18.8	14.8	12.1	9.8	9.4	8.5	7.6	8.1	9.0
75°	17.9	15.2	13.4	10.7	8.1	8.1	5.4	5.4	4.5	5.4	4.0
77.5°	12.5	10.3	8.1	6.7	5.4	4.9	3.6	3.6	3.1	3.1	3.1
80°	9.0	7.6	5.8	4.9	3.6	3.6	3.1	2.7	2.2	2.2	2.7
82.5°	5.4	4.0	4.0	3.6	2.2	1.8	1.3	1.8	0.9	0.9	0.9
85°	3.1	2.7	2.2	1.3	0.9	0.9	0.4	0.0	0.4	0.4	0.0
87.5°	1.8	0.9	0.9	0.4	0.0	0.4	0.4	0.0	0.0	0.0	0.9
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°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6
2.5°	922.0	921.5	922.4	922.4	925.1	924.7	926.0	926.0	925.1	925.6	927.4
5°	925.1	926.5	929.2	931.4	935.4	937.2	939.4	941.7	942.1	943.5	944.8
7.5°	925.1	929.6	932.7	936.8	942.1	945.3	950.2	954.2	956.0	958.2	960.9
10°	923.3	927.8	933.6	938.1	944.8	949.7	954.7	960.9	963.6	967.2	970.8
12.5°	919.8	924.7	930.9	936.8	944.4	948.8	955.1	960.9	965.0	969.9	973.9
15°	914.4	920.2	926.0	931.8	939.9	945.3	951.1	957.8	961.8	967.2	970.8
17.5°	905.9	912.1	917.5	922.9	930.5	936.8	942.1	948.4	952.4	956.9	961.8
20°	895.6	901.4	907.2	911.7	919.3	924.7	930.5	936.3	939.4	940.4	948.0
22.5°	882.6	886.6	891.1	898.3	902.8	907.7	913.0	918.4	921.5	926.5	929.2
25°	861.1	865.2	870.1	873.2	878.6	882.6	888.0	893.8	895.6	899.2	901.8
27.5°	831.1	833.4	835.6	838.3	841.4	843.7	846.8	849.5	851.3	853.1	854.9
30°	783.7	783.7	783.7	781.9	783.2	784.6	785.0	784.6	784.6	784.1	784.1
32.5°	721.0	717.5	713.4	709.9	708.5	706.7	705.8	704.5	702.2	700.9	701.3
35°	636.4	628.4	623.5	619.0	615.4	612.7	611.4	610.0	609.6	607.8	606.0
37.5°	530.8	525.0	521.4	518.7	515.6	512.9	513.4	513.8	515.1	514.3	514.7
40°	418.9	417.6	418.9	415.8	414.9	415.8	418.0	421.2	423.0	424.7	427.9
42.5°	318.7	320.9	324.0	324.0	325.4	327.2	329.9	334.8	337.5	340.6	344.2
45°	239.9	242.6	246.6	247.9	248.8	251.1	254.2	258.2	260.0	262.7	265.9
47.5°	184.9	186.6	188.9	191.1	193.3	194.2	197.4	197.4	199.6	201.4	202.3
50°	144.1	145.9	147.7	149.0	149.9	151.3	152.2	153.5	154.0	154.9	155.3
52.5°	112.8	115.0	115.0	115.9	117.3	118.6	118.2	118.6	119.0	119.0	120.4
55°	88.2	88.2	89.5	89.5	90.4	90.0	90.4	90.4	90.4	90.4	90.9
57.5°	65.8	66.2	67.6	66.7	66.2	67.1	66.2	67.1	66.7	67.6	66.2
60°	50.6	50.6	51.0	51.0	51.5	51.5	51.5	51.0	51.0	50.6	50.6
62.5°	38.0	38.5	38.9	38.5	38.5	38.5	38.0	38.0	37.6	37.1	37.1
65°	25.5	25.1	26.0	25.1	25.5	25.5	25.1	25.5	24.2	24.6	24.2
67.5°	18.3	17.9	17.5	17.9	17.5	17.0	17.0	17.5	17.9	16.6	16.6
70°	12.1	12.5	12.1	12.5	13.0	13.0	12.5	12.1	12.5	11.6	12.1
72.5°	7.6	7.6	7.6	7.6	7.6	8.1	8.1	8.1	7.2	7.2	6.7
75°	3.6	4.9	4.0	3.6	4.9	4.9	4.5	4.5	4.0	4.0	4.0
77.5°	3.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.2	2.7	2.2
80°	1.8	1.8	1.8	1.3	1.8	1.8	2.2	1.8	1.8	1.3	2.2
82.5°	0.9	0.9	0.9	0.0	0.4	0.9	0.9	0.4	0.9	0.9	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°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6
2.5°	926.9	926.5	926.9	927.4	926.9	926.5	926.9	927.4	925.6	925.1	926.0
5°	946.6	946.6	947.5	948.0	947.5	946.6	946.6	944.8	943.5	942.1	941.7
7.5°	963.6	964.5	965.4	965.8	965.4	964.5	963.6	960.9	958.2	956.0	954.2
10°	973.9	975.3	977.0	977.9	977.0	975.3	973.9	970.8	967.2	963.6	960.9
12.5°	978.4	979.7	982.0	981.5	982.0	979.7	978.4	973.9	969.9	965.0	960.9
15°	975.3	977.0	979.3	980.2	979.3	977.0	975.3	970.8	967.2	961.8	957.8
17.5°	965.4	968.1	969.4	970.8	969.4	968.1	965.4	961.8	956.9	952.4	948.4
20°	952.0	953.8	955.6	956.0	955.6	953.8	952.0	948.0	940.4	939.4	936.3
22.5°	932.7	934.1	938.1	936.8	938.1	934.1	932.7	929.2	926.5	921.5	918.4
25°	905.0	906.3	906.8	907.2	906.8	906.3	905.0	901.8	899.2	895.6	893.8
27.5°	857.1	857.1	858.0	858.4	858.0	857.1	857.1	854.9	853.1	851.3	849.5
30°	784.6	784.6	784.6	786.8	784.6	784.6	784.6	784.1	784.1	784.6	784.6
32.5°	700.9	700.0	699.1	700.0	699.1	700.0	700.9	701.3	700.9	702.2	704.5
35°	606.0	605.6	606.9	605.1	606.9	605.6	606.0	606.0	607.8	609.6	610.0
37.5°	515.1	514.3	516.0	514.3	516.0	514.3	515.1	514.7	514.3	515.1	513.8
40°	428.8	429.7	429.7	433.3	429.7	429.7	428.8	427.9	424.7	423.0	421.2
42.5°	346.0	348.7	347.8	350.4	347.8	348.7	346.0	344.2	340.6	337.5	334.8
45°	267.6	269.4	269.4	270.3	269.4	269.4	267.6	265.9	262.7	260.0	258.2
47.5°	205.4	205.4	205.4	205.9	205.4	205.4	205.4	202.3	201.4	199.6	197.4
50°	156.2	156.6	157.1	157.5	157.1	156.6	156.2	155.3	154.9	154.0	153.5
52.5°	119.9	120.4	119.5	120.4	119.5	120.4	119.9	120.4	119.0	119.0	118.6
55°	90.9	90.4	90.9	91.3	90.9	90.4	90.9	90.9	90.4	90.4	90.4
57.5°	66.7	65.8	65.8	65.8	65.8	65.8	66.7	66.2	67.6	66.7	67.1
60°	49.7	50.1	50.1	50.6	50.1	50.1	49.7	50.6	50.6	51.0	51.0
62.5°	36.7	38.0	37.1	38.0	37.1	38.0	36.7	37.1	37.1	37.6	38.0
65°	23.7	23.7	23.7	24.2	23.7	23.7	23.7	24.2	24.6	24.2	25.5
67.5°	16.1	16.6	17.5	17.0	17.5	16.6	16.1	16.6	16.6	17.9	17.5
70°	13.0	11.6	11.6	13.0	11.6	11.6	13.0	12.1	11.6	12.5	12.1
72.5°	7.6	6.7	7.6	7.6	7.6	6.7	7.6	6.7	7.2	7.2	8.1
75°	4.0	3.6	3.1	4.5	3.1	3.6	4.0	4.0	4.0	4.0	4.5
77.5°	2.7	2.2	3.1	3.1	3.1	2.2	2.7	2.2	2.7	2.2	2.7
80°	1.3	1.8	1.3	2.2	1.3	1.8	1.3	2.2	1.3	1.8	1.8
82.5°	0.4	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.9	0.9	0.4
85°	0.0	0.9	0.4	0.4	0.4	0.9	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°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6
2.5°	926.0	924.7	925.1	922.4	922.4	921.5	922.0	919.8	918.9	918.0	919.3
5°	939.4	937.2	935.4	931.4	929.2	926.5	925.1	921.5	918.4	915.7	915.3
7.5°	950.2	945.3	942.1	936.8	932.7	929.6	925.1	920.2	916.2	912.6	909.9
10°	954.7	949.7	944.8	938.1	933.6	927.8	923.3	917.1	911.7	906.8	903.6
12.5°	955.1	948.8	944.4	936.8	930.9	924.7	919.8	912.6	906.3	901.4	896.5
15°	951.1	945.3	939.9	931.8	926.0	920.2	914.4	906.8	901.0	895.1	891.6
17.5°	942.1	936.8	930.5	922.9	917.5	912.1	905.9	899.6	892.9	886.6	882.2
20°	930.5	924.7	919.3	911.7	907.2	901.4	895.6	888.9	883.5	877.2	872.3
22.5°	913.0	907.7	902.8	898.3	891.1	886.6	882.6	875.0	869.6	863.8	858.4
25°	888.0	882.6	878.6	873.2	870.1	865.2	861.1	854.4	849.5	844.1	839.6
27.5°	846.8	843.7	841.4	838.3	835.6	833.4	831.1	825.8	822.2	817.3	812.8
30°	785.0	784.6	783.2	781.9	783.7	783.7	783.7	782.8	779.7	776.1	772.9
32.5°	705.8	706.7	708.5	709.9	713.4	717.5	721.0	722.8	722.8	720.6	719.2
35°	611.4	612.7	615.4	619.0	623.5	628.4	636.4	638.2	639.6	639.6	637.8
37.5°	513.4	512.9	515.6	518.7	521.4	525.0	530.8	532.2	534.4	533.5	531.7
40°	418.0	415.8	414.9	415.8	418.9	417.6	418.9	418.0	418.0	414.9	414.9
42.5°	329.9	327.2	325.4	324.0	324.0	320.9	318.7	316.4	315.1	312.8	312.4
45°	254.2	251.1	248.8	247.9	246.6	242.6	239.9	237.2	234.1	233.2	233.6
47.5°	197.4	194.2	193.3	191.1	188.9	186.6	184.9	181.7	181.3	179.5	181.3
50°	152.2	151.3	149.9	149.0	147.7	145.9	144.1	142.3	141.4	141.4	141.9
52.5°	118.2	118.6	117.3	115.9	115.0	115.0	112.8	112.3	112.3	110.6	112.3
55°	90.4	90.0	90.4	89.5	89.5	88.2	88.2	86.8	86.8	85.5	86.4
57.5°	66.2	67.1	66.2	66.7	67.6	66.2	65.8	64.4	65.3	64.4	64.9
60°	51.5	51.5	51.5	51.0	51.0	50.6	50.6	50.1	50.1	49.2	50.1
62.5°	38.0	38.5	38.5	38.5	38.9	38.5	38.0	38.5	38.0	38.0	38.5
65°	25.1	25.5	25.5	25.1	26.0	25.1	25.5	26.0	26.4	26.0	26.4
67.5°	17.0	17.0	17.5	17.9	17.5	17.9	18.3	17.9	18.3	19.3	18.3
70°	12.5	13.0	13.0	12.5	12.1	12.5	12.1	13.4	13.4	13.4	14.3
72.5°	8.1	8.1	7.6	7.6	7.6	7.6	7.6	9.0	8.1	7.6	8.5
75°	4.5	4.9	4.9	3.6	4.0	4.9	3.6	4.0	5.4	4.5	5.4
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	3.6	3.1	3.1	3.1	3.6
80°	2.2	1.8	1.8	1.3	1.8	1.8	1.8	2.7	2.2	2.2	2.7
82.5°	0.9	0.9	0.4	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.8
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	0.9	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°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6
2.5°	915.7	915.7	915.3	914.4	912.6	912.6	912.1	910.8	909.9	909.5	909.5
5°	911.2	909.5	907.7	902.8	902.8	901.8	899.2	897.4	896.5	894.2	893.4
7.5°	907.2	901.8	898.7	895.6	891.6	889.8	886.6	885.3	882.2	879.9	878.6
10°	897.4	893.8	889.8	884.8	881.7	878.1	874.5	871.9	867.8	865.6	863.8
12.5°	890.7	885.3	881.7	876.3	871.0	867.8	862.9	859.8	855.8	851.3	848.6
15°	884.4	878.6	873.7	867.8	862.0	858.4	852.6	849.1	843.2	838.8	835.6
17.5°	875.0	870.1	864.7	857.5	852.2	847.7	841.4	837.0	831.6	825.8	822.6
20°	865.2	859.3	854.0	846.8	841.4	836.1	829.8	824.9	818.6	813.2	809.7
22.5°	852.2	845.5	841.0	833.8	827.6	821.7	815.9	810.1	804.3	799.8	795.8
25°	833.4	826.2	821.3	815.5	809.7	805.2	798.0	794.4	788.6	784.6	780.6
27.5°	806.5	801.2	796.7	790.9	785.9	782.4	777.0	773.4	768.5	764.9	761.8
30°	767.1	762.7	758.6	752.8	749.2	746.1	741.2	738.0	734.5	730.4	729.5
32.5°	714.3	710.7	706.7	702.7	700.0	698.2	694.2	692.4	688.8	686.6	684.3
35°	634.7	631.5	629.3	627.5	626.6	627.0	626.2	627.9	628.8	628.4	628.8
37.5°	530.4	528.6	529.5	530.8	535.3	541.1	546.5	554.5	559.9	565.3	570.2
40°	414.0	415.4	418.9	427.0	438.6	451.6	463.7	478.9	494.1	504.9	514.7
42.5°	312.4	316.4	325.4	337.0	354.5	373.7	392.5	414.9	433.3	451.1	463.7
45°	235.0	240.3	252.0	268.1	287.3	309.7	333.4	358.5	380.4	398.8	412.7
47.5°	183.1	188.0	199.6	216.6	240.3	263.6	288.2	314.2	337.0	354.9	367.0
50°	144.6	150.8	161.1	179.0	202.8	227.4	252.9	278.4	299.9	315.1	325.8
52.5°	113.7	119.5	129.3	148.2	172.3	196.9	220.6	245.7	264.5	279.3	286.4
55°	88.2	93.5	103.8	119.5	142.3	166.5	190.2	211.7	229.2	239.9	246.6
57.5°	67.1	71.2	78.3	94.0	114.6	137.0	157.1	178.6	192.0	199.6	204.1
60°	51.0	54.2	61.8	73.9	92.6	111.9	128.9	145.0	155.8	162.0	166.5
62.5°	38.5	42.1	47.4	57.7	72.0	87.7	102.0	114.1	123.1	127.1	130.2
65°	26.4	29.1	33.1	41.2	53.3	64.4	75.6	84.6	90.4	94.9	96.7
67.5°	19.7	21.5	23.7	30.0	38.5	47.4	55.0	61.3	67.6	69.4	72.5
70°	14.8	16.1	18.3	22.8	27.7	34.0	40.3	43.9	48.3	51.5	52.4
72.5°	9.4	9.8	12.1	14.8	18.8	22.8	26.9	30.0	32.7	34.5	35.4
75°	5.4	8.1	8.1	10.7	13.4	15.2	17.9	20.1	21.5	22.8	22.8
77.5°	3.6	4.9	5.4	6.7	8.1	10.3	12.5	13.9	15.2	15.7	15.7
80°	3.1	3.6	3.6	4.9	5.8	7.6	9.0	9.4	10.3	10.7	11.6
82.5°	1.3	1.8	2.2	3.6	4.0	4.0	5.4	5.8	6.7	7.2	7.2
85°	0.4	0.9	0.9	1.3	2.2	2.7	3.1	3.6	4.0	4.0	4.5
87.5°	0.4	0.4	0.0	0.4	0.9	0.9	1.8	1.8	1.8	2.7	2.7
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):

	330°	335°	340°	345°	350°	355°	360°
0°	916.6	916.6	916.6	916.6	916.6	916.6	916.6
2.5°	908.6	909.0	907.2	906.8	905.9	906.3	907.2
5°	892.0	892.5	890.7	888.9	888.9	888.4	888.9
7.5°	876.3	876.8	874.1	873.2	871.4	871.9	871.9
10°	860.7	860.7	856.7	856.2	854.9	854.4	854.4
12.5°	845.5	844.1	841.0	839.2	840.1	837.4	837.4
15°	832.0	829.8	825.8	824.4	822.2	821.3	821.3
17.5°	818.2	816.4	812.8	810.1	807.4	807.0	807.4
20°	804.7	802.9	798.5	796.7	794.4	794.4	793.5
22.5°	791.3	789.5	785.5	784.1	781.0	781.0	781.5
25°	777.4	776.1	771.6	770.7	770.3	768.5	769.4
27.5°	758.6	757.7	754.2	752.8	751.0	750.6	751.5
30°	724.2	722.8	720.1	718.8	715.7	716.1	717.0
32.5°	681.2	679.4	675.8	674.5	671.8	670.9	671.3
35°	627.5	626.2	623.0	623.0	620.3	619.4	620.3
37.5°	572.9	574.2	572.9	574.2	572.9	572.4	572.9
40°	521.4	526.3	527.2	532.2	530.4	533.1	532.6
42.5°	472.2	480.2	483.4	487.4	486.5	488.3	489.6
45°	422.5	429.2	432.4	435.0	435.5	436.4	436.8
47.5°	375.5	380.9	381.3	384.5	384.0	384.0	385.4
50°	331.7	335.2	336.1	338.4	336.6	335.7	336.1
52.5°	290.9	294.5	293.6	294.5	292.3	291.4	291.8
55°	249.3	251.1	251.1	251.1	248.4	248.4	248.4
57.5°	206.8	207.2	206.3	206.8	206.3	203.6	203.2
60°	167.8	167.8	167.4	167.8	166.5	165.2	165.2
62.5°	131.1	132.0	133.8	132.0	131.1	132.0	130.7
65°	98.0	99.8	99.4	100.3	99.8	99.8	98.9
67.5°	73.9	74.3	74.7	75.2	75.2	75.2	75.2
70°	54.2	55.5	55.0	55.0	55.0	55.0	57.7
72.5°	36.3	38.0	37.6	38.5	38.5	39.4	38.5
75°	24.6	26.4	25.5	26.9	26.4	25.5	27.7
77.5°	16.6	17.5	17.9	18.3	17.9	17.5	17.9
80°	11.6	12.5	12.1	12.5	12.5	12.5	13.0
82.5°	7.2	8.5	8.1	8.5	8.1	8.5	8.5
85°	4.9	5.4	4.5	5.4	4.9	4.9	5.8
87.5°	3.1	2.7	2.7	3.1	2.7	3.1	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)