

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: P857262

Luminaire Tested: **LX4C20D010 EX4C209835 4LBSWNH**

Issue Date: 2/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P857262  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C20D010 EX4C209835 4LBSWNH  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

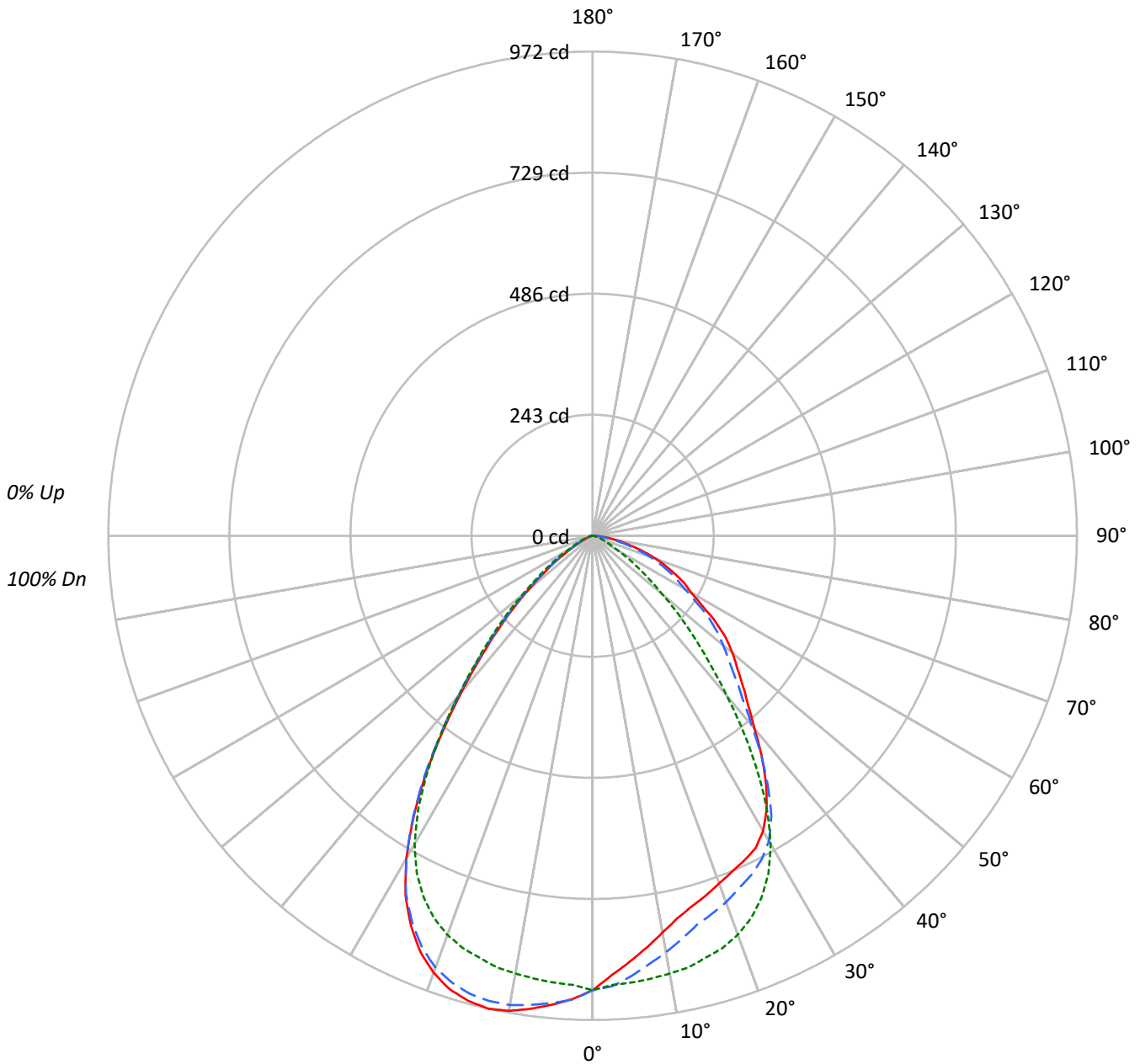
Lumens per Lamp: N/A  
Luminaire Lumens: 1598.9 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
Input Voltage (V):  
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									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70																			
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50																			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46																			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42																			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	112067	112067	112067
5°	105811	111040	116552
10°	100884	111301	120819
15°	97921	111531	122888
20°	97112	111415	122018
25°	97517	108673	116956
30°	97046	101372	106040
35°	90961	86551	87436
40°	81053	67116	65593
45°	74135	50020	46980
50°	70086	35053	31689
55°	64471	23668	19877
60°	56316	13858	10983
65°	53314	8895	6134
70°	48564	6358	3808
75°	40157	4462	2801
80°	31625	2547	1627
85°	28192	1692	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.2	5.4
10°-20°	247.2	15.5
20°-30°	366.5	22.9
30°-40°	367.0	23.0
40°-50°	256.5	16.0
50°-60°	152.6	9.5
60°-70°	79.7	5.0
70°-80°	35.4	2.2
80°-90°	7.7	0.5
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°	699.9	43.8
0°-40°	1066.9	66.7
0°-60°	1476.1	92.3
0°-90°	1598.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1598.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	912	912	912	912	912	
5°	858	888	900	942	945	80
15°	770	809	877	952	966	218
25°	719	752	802	857	863	331
35°	606	614	577	588	583	376
45°	427	406	288	279	270	331
55°	301	282	110	96	93	267
65°	183	168	31	22	21	181
75°	85	74	9	6	6	92
85°	20	15	1	1	0	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2
2.5°	882.7	893.3	882.7	886.3	900.4	887.5	894.5	894.5	891.0	899.2	905.1
5°	858.0	868.6	858.0	862.8	878.0	865.1	873.4	871.0	872.2	879.3	887.5
7.5°	833.4	841.6	832.2	838.1	852.2	841.6	848.7	848.7	849.8	860.4	867.5
10°	808.7	815.8	808.7	813.4	828.7	819.3	824.0	825.1	828.7	838.1	848.7
12.5°	786.3	792.2	785.2	792.2	805.2	795.8	801.7	802.8	806.3	816.9	828.7
15°	769.9	775.8	768.8	774.6	786.3	779.3	784.0	786.3	788.7	798.1	808.7
17.5°	757.0	761.7	755.8	762.9	772.2	764.0	771.1	771.1	774.6	784.0	795.8
20°	742.8	747.5	742.8	748.8	759.3	752.3	758.2	758.2	761.7	772.2	782.9
22.5°	730.0	732.3	730.0	734.6	745.2	739.3	742.8	744.1	747.5	757.0	766.4
25°	719.4	724.1	721.7	726.4	733.5	727.6	731.1	732.3	735.8	744.1	752.3
27.5°	707.6	709.9	707.6	713.5	719.4	714.6	718.2	717.0	719.4	726.4	733.5
30°	684.1	686.5	686.5	689.9	694.7	692.3	695.8	692.3	694.7	700.6	707.6
32.5°	650.0	651.2	652.4	655.9	659.4	655.9	658.3	658.3	658.3	662.9	667.6
35°	606.5	608.9	607.7	610.0	613.6	612.4	612.4	611.2	608.9	611.2	613.6
37.5°	557.2	553.6	553.6	557.2	559.5	554.8	557.2	554.8	554.8	556.0	556.0
40°	505.4	502.0	505.4	506.6	507.8	505.4	504.3	502.0	498.4	499.6	497.2
42.5°	462.0	459.6	460.8	460.8	462.0	459.6	460.8	456.0	452.6	450.2	446.7
45°	426.7	423.1	426.7	424.3	424.3	423.1	422.0	419.7	414.9	411.4	405.6
47.5°	393.8	393.8	395.0	395.0	395.0	392.5	392.5	387.9	383.2	378.5	370.3
50°	366.7	364.4	369.1	369.1	365.6	364.4	365.6	359.6	356.2	350.3	342.1
52.5°	337.3	337.3	338.5	338.5	337.3	334.9	336.2	331.5	327.9	322.1	313.8
55°	301.0	298.6	302.1	302.1	301.0	299.7	301.0	297.4	293.9	289.2	282.1
57.5°	259.8	258.6	260.9	262.2	259.8	259.8	260.9	257.4	256.2	251.6	244.5
60°	229.2	228.0	230.4	231.6	229.2	229.2	229.2	224.5	222.1	217.4	212.8
62.5°	208.0	206.9	209.2	208.0	206.9	205.7	206.9	202.2	199.8	195.1	190.5
65°	183.4	184.5	185.7	185.7	184.5	183.4	183.4	181.0	178.7	174.0	168.1
67.5°	159.8	159.8	161.0	162.2	161.0	161.0	161.0	157.5	155.2	151.6	144.6
70°	135.2	134.0	137.5	137.5	135.2	136.3	135.2	134.0	131.6	127.0	121.1
72.5°	109.3	109.3	110.5	110.5	109.3	109.3	109.3	108.2	104.6	102.3	96.4
75°	84.6	84.6	85.8	87.0	84.6	84.6	85.8	83.5	81.1	77.6	74.0
77.5°	63.5	62.3	63.5	63.5	62.3	62.3	62.3	61.2	59.9	56.4	52.9
80°	44.7	43.5	44.7	44.7	44.7	43.5	43.5	42.3	42.3	40.0	36.5
82.5°	30.6	29.4	30.6	30.6	30.6	29.4	29.4	29.4	28.2	27.0	24.7
85°	20.0	18.8	18.8	20.0	18.8	18.8	18.8	18.8	17.7	16.4	15.3
87.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	8.2	8.2	8.2	7.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2
2.5°	900.4	898.1	905.1	902.7	903.9	898.1	907.4	902.7	908.6	902.7	914.5
5°	885.1	882.7	893.3	892.2	893.3	888.6	899.2	898.1	905.1	900.4	913.3
7.5°	868.6	866.3	878.0	879.3	881.6	876.9	891.0	891.0	898.1	896.8	910.9
10°	849.8	851.0	862.8	865.1	869.8	867.5	880.4	884.0	893.3	892.2	909.8
12.5°	832.2	832.2	847.5	852.2	855.7	854.6	869.8	874.5	885.1	887.5	903.9
15°	814.6	815.8	829.9	836.9	841.6	840.5	856.9	862.8	875.7	876.9	896.8
17.5°	800.4	799.3	814.6	820.5	827.5	826.4	843.9	851.0	863.9	867.5	886.3
20°	788.7	787.6	801.7	808.7	813.4	812.3	829.9	838.1	849.8	852.2	871.0
22.5°	774.6	772.2	786.3	792.2	796.9	795.8	811.0	816.9	828.7	831.0	848.7
25°	758.2	755.8	768.8	772.2	775.8	773.5	786.3	789.9	799.3	801.7	819.3
27.5°	739.3	733.5	744.1	744.1	746.4	742.8	752.3	755.8	764.0	764.0	780.5
30°	709.9	701.8	707.6	706.4	707.6	702.9	708.8	709.9	715.9	714.6	726.4
32.5°	668.8	657.0	660.6	657.0	653.6	646.5	653.6	651.2	655.9	651.2	661.8
35°	612.4	600.7	599.4	594.8	591.2	585.3	585.3	579.5	580.7	577.1	584.2
37.5°	551.3	536.0	533.7	524.3	518.4	511.3	511.3	506.6	500.7	498.4	504.3
40°	491.3	474.9	469.1	453.7	447.8	440.8	436.1	430.3	427.9	418.5	423.1
42.5°	439.6	422.0	409.0	392.5	386.7	376.1	369.1	362.0	358.6	348.0	352.6
45°	396.1	375.0	360.9	339.7	331.5	319.7	309.2	301.0	292.7	287.9	285.6
47.5°	359.6	337.3	318.5	295.0	282.1	271.5	257.4	249.2	238.6	232.7	229.2
50°	329.1	304.4	283.3	256.2	243.4	231.6	215.1	202.2	192.8	183.4	181.0
52.5°	302.1	276.3	252.7	222.1	206.9	192.8	175.1	161.0	152.8	142.2	141.1
55°	270.4	248.0	222.1	190.5	175.1	161.0	142.2	128.1	117.5	110.5	108.2
57.5°	236.3	215.1	190.5	158.7	143.4	128.1	110.5	97.6	88.1	82.3	81.1
60°	204.6	184.5	161.0	129.3	114.0	101.1	82.3	69.4	61.2	56.4	54.0
62.5°	181.0	162.2	139.9	110.5	96.4	83.5	65.8	54.0	47.0	42.3	40.0
65°	158.7	139.9	119.9	92.8	81.1	69.4	52.9	42.3	35.2	30.6	28.2
67.5°	135.2	118.8	99.9	77.6	65.8	56.4	42.3	32.9	27.0	23.5	21.1
70°	111.6	96.4	81.1	62.3	54.0	44.7	32.9	25.9	20.0	17.7	15.3
72.5°	88.1	76.4	63.5	48.2	41.1	35.2	25.9	18.8	15.3	12.9	10.6
75°	65.8	57.6	47.0	36.5	30.6	25.9	18.8	14.1	11.8	9.4	8.2
77.5°	47.0	40.0	32.9	24.7	22.4	18.8	12.9	10.6	8.2	5.9	4.7
80°	31.7	28.2	22.4	17.7	14.1	12.9	9.4	7.0	4.7	3.6	3.6
82.5°	21.1	17.7	14.1	10.6	9.4	8.2	5.9	4.7	3.6	2.3	2.3
85°	12.9	10.6	8.2	5.9	5.9	4.7	3.6	2.3	1.2	1.2	1.2
87.5°	5.9	4.7	3.6	2.3	2.3	1.2	1.2	1.2	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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2
2.5°	923.9	916.9	912.2	918.0	920.4	916.9	920.4	926.3	932.1	933.3	916.9
5°	925.1	918.0	915.6	922.7	923.9	922.7	926.3	934.5	941.5	943.9	927.4
7.5°	925.1	920.4	919.2	927.4	928.6	927.4	933.3	942.7	949.7	954.4	938.0
10°	922.7	920.4	921.5	928.6	931.0	931.0	939.2	949.7	956.7	961.5	945.1
12.5°	919.2	919.2	919.2	927.4	929.8	931.0	938.0	952.1	956.7	963.9	947.4
15°	913.3	913.3	913.3	921.5	925.1	925.1	933.3	946.2	952.1	959.2	942.7
17.5°	902.7	902.7	903.9	910.9	914.5	914.5	922.7	936.9	940.3	948.6	932.1
20°	887.5	887.5	888.6	895.7	899.2	896.8	907.4	919.2	922.7	929.8	913.3
22.5°	865.1	865.1	865.1	872.2	874.5	873.4	884.0	894.5	894.5	903.9	886.3
25°	832.2	834.6	832.2	839.2	841.6	840.5	849.8	859.3	856.9	867.5	849.8
27.5°	792.2	791.1	791.1	796.9	796.9	795.8	802.8	813.4	811.0	818.1	801.7
30°	737.0	740.5	734.6	742.8	739.3	737.0	741.7	751.1	747.5	753.4	740.5
32.5°	673.5	668.8	668.8	668.8	671.1	665.3	670.0	674.7	671.1	677.1	662.9
35°	590.1	591.2	587.7	588.9	590.1	583.0	587.7	592.4	587.7	591.2	578.3
37.5°	506.6	507.8	499.6	504.3	499.6	497.2	502.0	504.3	499.6	503.0	488.9
40°	423.1	420.8	419.7	419.7	420.8	414.9	418.5	422.0	418.5	420.8	407.9
42.5°	350.3	349.1	346.8	348.0	344.4	343.2	344.4	348.0	344.4	346.8	337.3
45°	286.8	284.5	280.9	282.1	282.1	276.3	279.7	282.1	278.6	279.7	271.5
47.5°	228.0	224.5	224.5	223.3	223.3	221.0	224.5	223.3	219.8	222.1	213.9
50°	177.5	175.1	175.1	175.1	175.1	171.6	172.8	175.1	171.6	171.6	166.9
52.5°	138.7	135.2	132.9	132.9	132.9	131.6	131.6	132.9	129.3	129.3	128.1
55°	104.6	103.4	99.9	99.9	99.9	96.4	97.6	97.6	96.4	96.4	92.8
57.5°	77.6	74.0	71.7	71.7	69.4	69.4	68.2	69.4	67.0	67.0	64.7
60°	51.7	49.3	48.2	47.0	47.0	45.8	47.0	45.8	45.8	44.7	43.5
62.5°	37.6	35.2	32.9	32.9	32.9	31.7	31.7	31.7	31.7	31.7	30.6
65°	27.0	24.7	24.7	23.5	23.5	22.4	22.4	22.4	22.4	22.4	21.1
67.5°	18.8	17.7	16.4	16.4	16.4	16.4	16.4	16.4	15.3	15.3	15.3
70°	14.1	12.9	11.8	11.8	11.8	11.8	11.8	10.6	11.8	11.8	10.6
72.5°	9.4	9.4	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
75°	7.0	7.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
77.5°	4.7	4.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
80°	3.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	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):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	912.2	912.2	912.2	912.2	912.2	912.2	912.2	912.2
2.5°	934.5	933.3	931.0	934.5	925.1	921.5	920.4	931.0
5°	947.4	945.1	945.1	948.6	938.0	935.6	933.3	945.1
7.5°	959.2	956.7	956.7	960.3	951.0	948.6	946.2	958.0
10°	966.2	966.2	966.2	968.5	960.3	958.0	956.7	968.5
12.5°	969.8	969.8	968.5	973.2	962.7	962.7	960.3	972.1
15°	965.0	965.0	965.0	968.5	959.2	956.7	956.7	966.2
17.5°	953.3	953.3	952.1	955.7	945.1	945.1	943.9	954.4
20°	935.6	935.6	933.3	938.0	927.4	923.9	922.7	933.3
22.5°	907.4	906.3	905.1	907.4	898.1	895.7	894.5	903.9
25°	871.0	869.8	867.5	869.8	859.3	855.7	855.7	862.8
27.5°	819.3	819.3	815.8	819.3	807.5	806.3	805.2	813.4
30°	755.8	751.1	748.8	753.4	741.7	741.7	739.3	747.5
32.5°	677.1	672.4	671.1	673.5	662.9	659.4	664.1	668.8
35°	586.6	587.7	583.0	583.0	573.7	574.7	576.0	583.0
37.5°	499.6	497.2	496.0	497.2	490.2	487.8	485.5	492.5
40°	418.5	412.6	411.4	411.4	405.6	404.4	405.6	409.0
42.5°	342.1	340.9	336.2	338.5	332.6	334.9	333.9	333.9
45°	276.3	277.4	272.7	276.3	271.5	268.0	268.0	270.4
47.5°	218.7	218.7	217.4	217.4	213.9	215.1	212.8	216.2
50°	169.3	169.3	166.9	168.1	165.8	165.8	164.5	165.8
52.5°	129.3	128.1	128.1	127.0	124.6	125.8	127.0	124.6
55°	94.1	95.2	92.8	94.1	91.7	92.8	91.7	92.8
57.5°	64.7	65.8	63.5	65.8	63.5	64.7	63.5	63.5
60°	44.7	44.7	43.5	44.7	43.5	43.5	42.3	44.7
62.5°	30.6	30.6	30.6	30.6	30.6	29.4	30.6	30.6
65°	22.4	21.1	21.1	21.1	21.1	21.1	21.1	21.1
67.5°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
70°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
72.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
75°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	0.0	1.2	0.0	0.0	0.0
87.5°	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



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)