

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: P857491

Luminaire Tested: **LX4C25D010 EX4C259850 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C25D010 EX4C259850 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

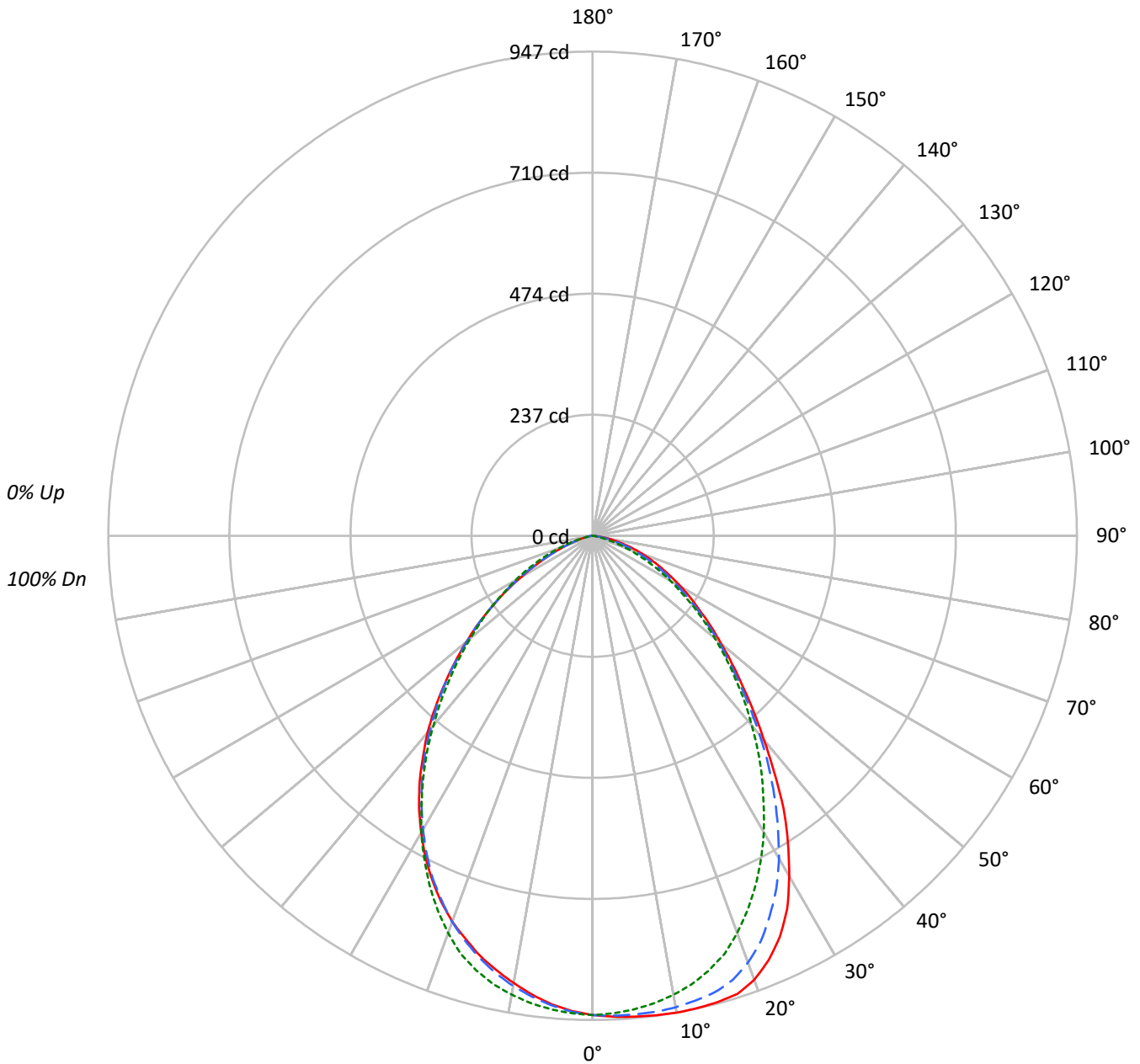
Lumens per Lamp: N/A
Luminaire Lumens: 1766.6 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V):
Input Current (A_{in}): 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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68																			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60																			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35																			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	115163	115163	115163
5°	116441	114665	113420
10°	118149	113696	110827
15°	120090	111887	108173
20°	120854	108068	104969
25°	117390	102235	100662
30°	109090	95031	95074
35°	97650	86626	88456
40°	83603	77653	80492
45°	71964	68471	71043
50°	62575	59593	61390
55°	55068	51277	50806
60°	48994	42802	39411
65°	42994	34273	28517
70°	36890	24210	19289
75°	29952	14050	11297
80°	21437	6084	5589
85°	8176	2537	2537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	5.0
10°-20°	250.1	14.2
20°-30°	357.1	20.2
30°-40°	373.6	21.1
40°-50°	313.0	17.7
50°-60°	219.1	12.4
60°-70°	119.3	6.8
70°-80°	41.4	2.3
80°-90°	4.8	0.3
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°	695.5	39.4
0°-40°	1069.1	60.5
0°-60°	1601.1	90.6
0°-90°	1766.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1766.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	937	937	937	937	937	
5°	944	940	930	922	920	90
15°	944	924	880	854	850	267
25°	866	820	754	739	743	395
35°	651	619	578	582	590	404
45°	414	405	394	407	409	322
55°	257	248	239	239	237	232
65°	148	135	118	99	98	147
75°	63	51	30	24	24	68
85°	6	3	2	2	2	10
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°	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4
2.5°	941.7	940.6	941.0	941.0	941.0	940.6	941.0	940.6	940.6	940.3	939.5
5°	944.2	943.5	943.5	943.5	943.1	942.7	942.7	942.4	941.7	941.3	939.9
7.5°	946.0	945.3	945.3	945.0	944.6	944.2	943.8	942.7	941.7	941.0	939.2
10°	947.1	946.0	946.0	945.3	944.6	944.2	943.5	942.0	940.6	938.8	936.3
12.5°	946.4	945.3	945.0	944.2	942.7	942.0	941.3	939.5	937.0	934.5	931.2
15°	944.2	943.5	942.7	941.7	939.9	938.8	938.1	935.2	932.0	928.4	924.4
17.5°	939.9	938.8	937.4	935.9	933.4	932.3	930.5	926.9	922.2	917.2	911.1
20°	924.4	923.7	922.2	919.7	915.7	914.3	911.8	907.1	900.9	894.9	888.4
22.5°	898.8	897.7	895.6	893.3	889.8	887.3	885.1	878.6	871.8	865.3	859.1
25°	866.0	864.9	862.0	859.1	855.5	851.2	849.0	844.0	837.2	828.9	819.9
27.5°	823.8	820.2	819.2	815.9	810.5	809.0	805.8	799.3	792.8	785.6	778.0
30°	769.0	769.0	766.8	765.4	760.4	758.9	755.3	748.4	744.9	734.8	729.0
32.5°	711.0	710.3	708.4	707.3	704.5	702.0	698.3	694.8	686.8	681.7	673.8
35°	651.1	646.8	647.5	645.4	643.6	640.6	640.3	636.3	629.1	626.3	619.0
37.5°	582.9	581.1	583.7	580.4	578.7	579.0	576.2	573.6	570.7	565.6	564.2
40°	521.3	522.7	522.4	519.5	521.0	519.2	516.3	513.7	512.3	509.1	508.0
42.5°	466.2	464.0	463.3	463.3	463.6	463.6	462.2	460.4	460.4	457.1	453.9
45°	414.2	414.2	413.5	415.7	412.4	412.4	411.4	411.0	409.6	408.9	404.9
47.5°	369.5	369.2	368.8	368.5	368.1	368.1	366.0	364.1	363.7	361.6	359.5
50°	327.4	329.5	328.8	327.0	326.3	326.6	325.2	324.1	323.8	320.1	320.5
52.5°	292.0	291.7	292.4	291.3	289.5	289.9	288.4	287.0	285.5	283.8	282.3
55°	257.1	258.9	258.2	257.1	256.7	255.9	254.9	253.1	252.7	248.8	248.4
57.5°	227.8	227.5	226.8	225.0	224.6	223.6	223.6	222.0	219.9	217.8	216.0
60°	199.4	199.4	198.3	198.0	196.5	196.1	195.7	194.3	191.8	190.0	187.1
62.5°	171.9	172.7	171.9	170.9	169.8	168.4	167.6	166.6	164.4	162.6	160.1
65°	147.9	147.5	147.1	145.6	145.3	143.8	143.5	141.3	139.2	137.7	134.8
67.5°	124.8	123.7	123.7	123.0	122.3	121.1	120.4	118.2	115.7	114.3	111.4
70°	102.7	102.0	102.0	102.0	100.2	99.2	98.8	97.7	94.1	92.7	89.8
72.5°	82.6	82.2	81.9	80.8	79.6	79.6	78.2	76.1	74.3	72.5	70.3
75°	63.1	63.8	63.1	61.6	61.3	60.5	59.5	57.7	55.9	53.7	51.2
77.5°	46.1	45.4	44.7	44.7	44.0	42.5	42.2	40.8	38.6	37.1	34.6
80°	30.3	30.0	29.2	28.4	28.1	27.7	27.4	25.9	23.8	22.7	20.5
82.5°	16.6	16.2	16.2	15.9	14.8	14.8	14.4	13.0	11.9	11.1	10.1
85°	5.8	5.8	5.8	5.4	5.4	5.4	5.1	4.7	4.4	3.9	3.2
87.5°	0.7	0.4	0.7	0.4	0.7	0.4	0.4	0.4	0.4	0.4	0.4
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°	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4
2.5°	938.8	938.1	937.8	937.4	937.0	936.7	936.3	935.5	935.2	934.8	934.1
5°	938.8	937.4	936.7	935.5	934.8	934.1	933.0	932.0	930.9	929.8	928.7
7.5°	937.4	935.2	933.7	931.6	930.9	929.8	927.7	926.2	924.4	922.2	919.7
10°	933.7	931.2	928.4	925.4	924.4	922.6	919.7	917.2	914.3	911.4	908.9
12.5°	928.0	924.0	920.5	916.4	914.3	912.5	908.5	904.9	901.3	898.1	893.7
15°	919.4	914.7	909.9	904.6	902.0	899.9	894.1	889.8	884.0	879.7	875.3
17.5°	905.3	898.1	892.3	885.4	881.8	879.3	874.3	867.4	862.0	857.3	852.3
20°	881.1	874.3	866.3	858.7	854.8	851.5	844.4	837.2	831.7	826.6	821.3
22.5°	849.4	840.7	834.9	825.6	822.4	818.4	809.7	803.3	797.1	792.0	787.1
25°	810.9	803.3	795.3	786.7	782.7	778.0	770.8	764.0	760.0	754.2	748.1
27.5°	766.5	760.4	750.6	743.1	739.1	735.5	728.6	722.5	716.7	712.8	707.0
30°	719.6	712.4	703.8	695.8	693.7	689.3	683.2	678.5	672.4	669.9	667.3
32.5°	668.1	659.8	653.3	648.2	643.9	640.3	637.1	629.5	628.4	621.9	621.2
35°	611.8	608.2	602.1	597.7	594.2	591.6	586.2	582.6	578.7	577.6	575.1
37.5°	558.9	554.5	548.7	544.8	542.3	541.9	537.9	535.8	532.8	531.4	528.5
40°	503.3	501.5	496.4	495.7	491.8	491.4	489.2	486.7	484.2	484.2	484.6
42.5°	452.1	450.0	447.7	445.2	443.1	443.1	442.0	441.3	440.5	439.5	441.3
45°	404.1	401.3	399.9	397.3	398.3	396.2	395.5	395.5	394.4	394.1	396.6
47.5°	359.5	356.2	354.7	354.0	354.0	354.4	351.2	352.2	351.9	352.6	353.7
50°	318.7	315.9	313.6	313.6	314.0	312.6	311.1	312.2	311.1	311.8	314.3
52.5°	280.8	278.0	276.9	276.9	274.7	274.4	275.1	273.7	274.0	274.4	275.8
55°	245.9	244.1	242.3	240.5	240.9	240.1	238.6	238.3	239.0	239.4	241.2
57.5°	214.6	212.0	209.5	208.8	208.0	208.0	206.3	205.9	206.6	204.7	204.7
60°	184.6	183.2	179.9	178.8	178.8	177.0	175.6	176.3	174.5	174.2	174.5
62.5°	156.9	155.8	153.6	151.4	150.7	150.0	148.2	147.5	146.7	145.3	143.1
65°	132.7	130.2	127.6	126.2	125.1	123.3	122.3	120.7	118.6	117.9	115.7
67.5°	108.5	106.0	103.4	102.4	101.3	100.2	98.4	96.7	94.1	91.2	88.7
70°	87.2	84.0	82.6	79.6	78.9	77.5	75.0	73.2	70.6	67.4	64.9
72.5°	66.7	64.6	62.3	59.8	58.1	57.0	54.8	51.9	49.0	47.3	44.7
75°	48.0	46.9	44.0	41.1	40.4	39.0	36.4	34.6	32.5	29.6	27.4
77.5°	32.5	30.3	28.4	25.9	25.2	23.8	22.4	20.5	19.1	17.3	15.9
80°	19.1	17.3	16.2	14.4	13.7	13.0	11.9	10.4	9.4	8.6	8.3
82.5°	9.4	7.9	7.6	6.5	6.2	5.8	5.1	4.7	3.9	3.9	3.9
85°	3.2	2.5	2.5	2.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.4
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°	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4
2.5°	933.7	933.4	933.0	932.7	932.7	932.3	932.3	932.0	932.0	931.6	931.6
5°	927.2	926.2	925.4	924.7	924.7	923.7	923.0	922.2	921.9	921.9	921.2
7.5°	918.2	916.8	915.4	914.3	913.9	912.2	910.6	910.6	909.2	908.5	907.8
10°	906.4	903.9	901.6	900.6	899.1	898.1	896.3	895.2	894.1	892.3	891.9
12.5°	890.1	888.4	885.1	883.6	882.9	880.8	877.9	876.4	876.0	874.6	873.6
15°	871.8	867.8	864.9	863.1	863.1	859.5	858.0	855.9	854.5	853.4	853.0
17.5°	848.0	844.0	841.1	838.6	837.9	834.9	832.8	832.1	830.3	831.0	829.2
20°	817.3	814.1	811.9	808.6	808.6	806.8	806.1	804.4	803.6	802.9	803.6
22.5°	784.5	780.5	777.0	776.6	776.6	774.0	773.7	773.3	771.9	773.0	772.6
25°	745.9	743.1	740.9	740.5	740.5	739.1	737.6	738.4	739.4	739.1	740.1
27.5°	705.9	703.0	702.3	702.0	701.3	700.8	701.6	701.6	702.7	704.1	705.5
30°	662.7	661.9	660.9	660.5	659.8	661.6	662.3	663.4	663.0	665.2	666.6
32.5°	619.4	618.0	617.6	618.3	619.4	619.0	621.2	621.9	622.6	625.1	626.3
35°	575.8	575.4	574.6	574.6	575.1	577.9	577.9	580.4	581.9	582.6	585.5
37.5°	528.9	530.3	531.0	532.1	532.5	533.6	534.3	536.8	538.3	539.7	541.1
40°	486.0	485.3	488.5	486.4	487.1	490.3	491.8	491.4	493.6	495.7	497.1
42.5°	440.2	441.3	442.0	442.7	444.5	444.9	446.7	449.3	450.0	452.5	453.2
45°	395.8	396.2	397.6	399.1	400.2	403.1	403.8	404.9	407.0	407.0	408.2
47.5°	354.0	355.4	355.4	357.7	359.5	359.1	361.6	362.3	362.0	363.7	364.5
50°	314.0	316.2	315.9	317.3	318.0	318.4	320.5	321.2	319.8	321.6	321.9
52.5°	275.8	276.9	278.3	278.7	278.0	279.7	279.0	280.5	280.1	281.6	280.1
55°	240.9	240.5	240.5	241.2	240.5	241.2	241.9	240.5	239.4	240.9	240.5
57.5°	205.9	205.9	205.1	206.3	205.1	204.0	203.7	202.6	201.5	201.5	201.2
60°	173.1	172.4	170.9	170.5	170.5	168.7	168.0	166.6	166.6	165.2	163.6
62.5°	142.4	140.6	139.6	139.6	138.8	137.0	133.8	131.6	130.9	128.7	128.3
65°	113.6	111.7	110.7	108.5	106.7	106.0	102.7	100.2	99.2	97.0	97.4
67.5°	87.2	84.4	81.1	79.6	78.6	76.1	75.0	73.2	72.1	72.1	72.1
70°	62.7	60.2	57.0	55.9	55.2	53.0	51.9	51.5	52.6	52.3	52.6
72.5°	42.2	39.7	38.3	37.5	36.7	35.7	36.4	36.7	36.0	36.4	36.7
75°	25.6	24.9	23.8	23.5	23.5	23.8	23.5	23.5	23.8	23.8	24.2
77.5°	14.8	14.1	14.1	13.7	14.4	14.1	14.1	14.1	14.4	14.4	14.4
80°	7.9	7.9	7.9	7.9	8.3	7.9	8.3	8.3	8.3	8.3	8.3
82.5°	3.9	3.9	3.9	4.4	4.4	4.4	4.4	4.4	4.4	4.4	3.9
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.4	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.4
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°	937.4	937.4	937.4	937.4	937.4	937.4	937.4	937.4
2.5°	930.9	930.9	930.9	930.2	930.5	930.5	930.2	930.2
5°	920.8	920.5	919.7	919.7	918.9	919.7	919.4	919.7
7.5°	907.1	907.1	906.0	906.0	905.7	905.3	904.9	905.3
10°	890.9	890.9	890.1	889.8	890.1	888.7	888.7	888.4
12.5°	872.8	872.1	871.4	871.8	871.4	870.3	870.0	870.3
15°	851.9	850.8	851.2	850.1	850.1	849.7	850.5	850.5
17.5°	828.9	828.2	827.4	827.8	827.1	827.4	827.1	826.6
20°	803.3	802.9	802.9	801.4	801.9	801.4	801.9	802.9
22.5°	773.7	773.3	773.7	772.6	773.3	773.3	774.4	774.4
25°	741.2	740.9	741.6	741.9	742.3	743.4	742.3	742.6
27.5°	705.2	706.3	707.3	707.7	709.1	708.0	707.3	708.4
30°	668.8	668.8	668.4	669.9	670.9	672.0	670.2	670.2
32.5°	627.0	628.8	628.8	629.1	630.2	630.2	630.2	631.6
35°	586.9	588.0	588.4	586.9	587.7	587.3	589.8	589.8
37.5°	542.3	542.3	542.6	545.1	545.1	544.1	544.8	544.8
40°	499.7	500.1	498.6	499.3	501.2	500.4	501.2	501.9
42.5°	453.2	455.7	454.3	455.0	454.6	455.0	455.3	455.3
45°	408.9	409.6	409.6	409.9	410.6	411.4	409.2	408.9
47.5°	365.6	366.0	367.0	365.3	367.4	365.3	367.4	364.8
50°	321.9	323.4	322.3	323.0	321.9	321.9	321.6	321.2
52.5°	280.5	280.1	280.1	279.7	279.7	280.5	279.7	280.8
55°	239.0	239.4	238.6	238.3	237.9	239.0	237.9	237.2
57.5°	199.8	200.5	199.0	199.8	197.2	198.3	198.7	199.0
60°	163.3	162.2	162.2	160.8	160.8	161.9	160.4	160.4
62.5°	126.5	127.3	126.2	127.6	127.6	129.0	128.3	129.0
65°	97.0	97.4	97.7	97.7	97.7	99.9	99.2	98.1
67.5°	73.2	73.6	73.9	73.6	74.6	73.9	73.9	74.3
70°	53.0	53.3	53.7	53.7	53.3	53.7	53.7	53.7
72.5°	36.7	37.1	36.7	37.1	37.5	37.1	37.1	37.5
75°	24.2	24.2	23.8	23.8	23.8	23.8	24.2	23.8
77.5°	14.1	14.4	14.1	14.4	14.4	14.4	14.4	14.4
80°	8.3	8.3	8.3	7.9	8.3	8.3	8.3	7.9
82.5°	4.4	4.4	3.9	3.9	4.4	4.4	4.4	4.4
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)