

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: P857275

Luminaire Tested: **LX4C20D010 EX4C209840 4LBSWNH**

Issue Date: 2/18/2022

Test Information

Test Method: LM-79-08
Report Number: P857275
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 EX4C209840 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

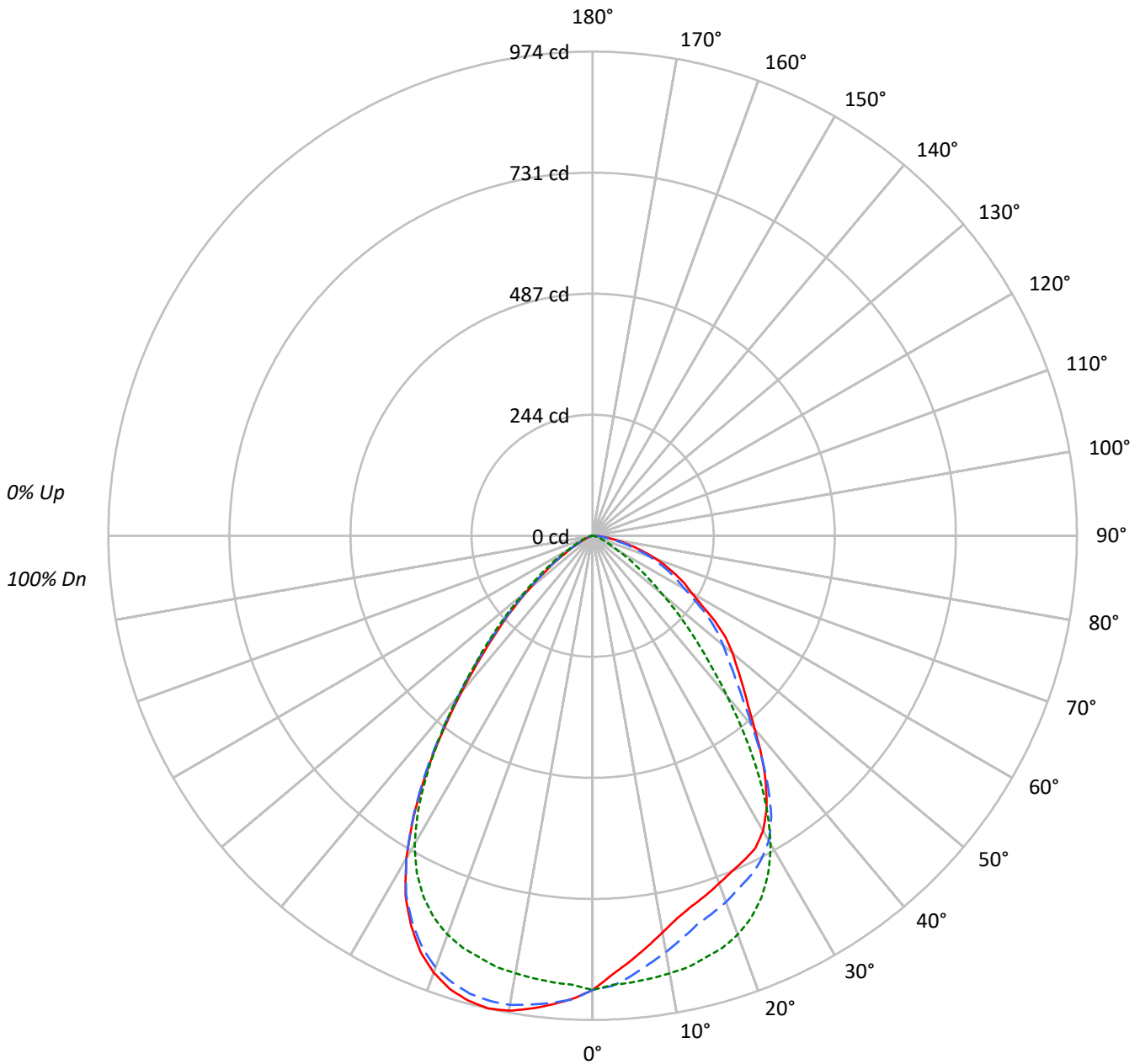
Lumens per Lamp: N/A
Luminaire Lumens: 1601.6 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V):
Input Current (A_{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	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°	112251	112251	112251
5°	105996	111225	116737
10°	101059	111475	121019
15°	98087	111721	123092
20°	97282	111611	122214
25°	97667	108850	117146
30°	97202	101557	106224
35°	91111	86701	87586
40°	81181	67229	65721
45°	74257	50124	47049
50°	70201	35110	31727
55°	64556	23711	19920
60°	56390	13882	11008
65°	53401	8895	6163
70°	48672	6358	3808
75°	40252	4509	2801
80°	31695	2547	1627
85°	28333	1692	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	5.4
10°-20°	247.7	15.5
20°-30°	367.1	22.9
30°-40°	367.6	23.0
40°-50°	256.9	16.0
50°-60°	152.9	9.5
60°-70°	79.8	5.0
70°-80°	35.5	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°	701.1	43.8
0°-40°	1068.7	66.7
0°-60°	1478.6	92.3
0°-90°	1601.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1601.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	914	914	914	914	914	
5°	860	889	902	943	947	81
15°	771	810	878	954	968	218
25°	720	754	803	858	864	332
35°	608	615	578	589	584	377
45°	427	406	288	279	271	332
55°	301	283	111	97	93	267
65°	184	168	31	22	21	182
75°	85	74	10	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°	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7
2.5°	884.3	894.9	884.3	887.8	901.9	888.9	896.0	896.0	892.5	900.7	906.6
5°	859.5	870.1	859.5	864.2	879.5	866.5	874.8	872.5	873.6	880.7	888.9
7.5°	834.8	843.1	833.6	839.5	853.7	843.1	850.1	850.1	851.3	861.9	868.9
10°	810.1	817.1	810.1	814.8	830.1	820.7	825.4	826.6	830.1	839.5	850.1
12.5°	787.7	793.6	786.5	793.6	806.5	797.1	803.0	804.2	807.7	818.4	830.1
15°	771.2	777.1	770.0	775.9	787.7	780.6	785.4	787.7	790.0	799.4	810.1
17.5°	758.2	763.0	757.1	764.1	773.6	765.3	772.4	772.4	775.9	785.4	797.1
20°	744.1	748.8	744.1	750.0	760.7	753.5	759.4	759.4	763.0	773.6	784.2
22.5°	731.1	733.5	731.1	735.9	746.5	740.6	744.1	745.3	748.8	758.2	767.7
25°	720.5	725.3	722.9	727.7	734.7	728.8	732.3	733.5	737.0	745.3	753.5
27.5°	708.8	711.2	708.8	714.7	720.5	715.9	719.4	718.2	720.5	727.7	734.7
30°	685.2	687.6	687.6	691.1	695.8	693.5	697.0	693.5	695.8	701.7	708.8
32.5°	651.1	652.3	653.5	657.0	660.5	657.0	659.4	659.4	659.4	664.1	668.8
35°	607.5	609.9	608.7	611.1	614.6	613.4	613.4	612.3	609.9	612.3	614.6
37.5°	558.1	554.6	554.6	558.1	560.5	555.7	558.1	555.7	555.7	556.9	556.9
40°	506.2	502.8	506.2	507.5	508.6	506.2	505.1	502.8	499.2	500.4	498.0
42.5°	462.7	460.3	461.6	461.6	462.7	460.3	461.6	456.8	453.3	451.0	447.4
45°	427.4	423.8	427.4	425.0	425.0	423.8	422.7	420.4	415.6	412.1	406.2
47.5°	394.4	394.4	395.6	395.6	395.6	393.3	393.3	388.5	383.8	379.1	370.9
50°	367.3	365.0	369.7	369.7	366.1	365.0	366.1	360.3	356.8	350.9	342.6
52.5°	337.9	337.9	339.1	339.1	337.9	335.6	336.7	332.0	328.5	322.6	314.3
55°	301.4	299.1	302.6	302.6	301.4	300.2	301.4	297.8	294.4	289.6	282.6
57.5°	260.2	259.1	261.4	262.5	260.2	260.2	261.4	257.9	256.6	251.9	244.9
60°	229.5	228.4	230.8	231.9	229.5	229.5	229.5	224.9	222.5	217.8	213.1
62.5°	208.4	207.2	209.6	208.4	207.2	206.0	207.2	202.5	200.2	195.5	190.7
65°	183.7	184.9	186.0	186.0	184.9	183.7	183.7	181.4	179.0	174.2	168.4
67.5°	160.1	160.1	161.3	162.5	161.3	161.3	161.3	157.7	155.4	151.9	144.8
70°	135.5	134.2	137.8	137.8	135.5	136.6	135.5	134.2	131.9	127.2	121.3
72.5°	109.5	109.5	110.7	110.7	109.5	109.5	109.5	108.3	104.8	102.4	96.6
75°	84.8	84.8	86.0	87.1	84.8	84.8	86.0	83.6	81.2	77.8	74.2
77.5°	63.6	62.4	63.6	63.6	62.4	62.4	62.4	61.3	60.0	56.5	53.0
80°	44.8	43.6	44.8	44.8	44.8	43.6	43.6	42.4	42.4	40.0	36.5
82.5°	30.6	29.4	30.6	30.6	30.6	29.4	29.4	29.4	28.3	27.1	24.7
85°	20.1	18.8	18.8	20.1	18.8	18.8	18.8	18.8	17.7	16.5	15.3
87.5°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	8.3	8.3	8.3	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°	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7
2.5°	901.9	899.6	906.6	904.2	905.4	899.6	909.0	904.2	910.1	904.2	916.0
5°	886.6	884.3	894.9	893.6	894.9	890.1	900.7	899.6	906.6	901.9	914.8
7.5°	870.1	867.8	879.5	880.7	883.1	878.4	892.5	892.5	899.6	898.3	912.4
10°	851.3	852.4	864.2	866.5	871.3	868.9	881.8	885.4	894.9	893.6	911.4
12.5°	833.6	833.6	848.9	853.7	857.1	856.0	871.3	876.0	886.6	888.9	905.4
15°	815.9	817.1	831.3	838.3	843.1	841.9	858.3	864.2	877.2	878.4	898.3
17.5°	801.8	800.6	815.9	821.8	828.9	827.7	845.4	852.4	865.4	868.9	887.8
20°	790.0	788.8	803.0	810.1	814.8	813.6	831.3	839.5	851.3	853.7	872.5
22.5°	775.9	773.6	787.7	793.6	798.3	797.1	812.4	818.4	830.1	832.4	850.1
25°	759.4	757.1	770.0	773.6	777.1	774.7	787.7	791.2	800.6	803.0	820.7
27.5°	740.6	734.7	745.3	745.3	747.6	744.1	753.5	757.1	765.3	765.3	781.8
30°	711.2	703.0	708.8	707.6	708.8	704.1	710.0	711.2	717.0	715.9	727.7
32.5°	670.0	658.2	661.7	658.2	654.6	647.6	654.6	652.3	657.0	652.3	662.8
35°	613.4	601.7	600.5	595.8	592.3	586.3	586.3	580.5	581.6	578.1	585.2
37.5°	552.2	536.9	534.6	525.1	519.3	512.2	512.2	507.5	501.5	499.2	505.1
40°	492.2	475.7	469.8	454.5	448.5	441.5	436.8	431.0	428.6	419.2	423.8
42.5°	440.3	422.7	409.8	393.3	387.4	376.8	369.7	362.7	359.1	348.5	353.2
45°	396.8	375.6	361.5	340.3	332.0	320.2	309.6	301.4	293.2	288.5	286.1
47.5°	360.3	337.9	319.1	295.5	282.6	272.0	257.9	249.6	239.1	233.1	229.5
50°	329.7	305.0	283.8	256.6	243.7	231.9	215.4	202.5	193.2	183.7	181.4
52.5°	302.6	276.7	253.2	222.5	207.2	193.2	175.4	161.3	153.0	142.5	141.3
55°	270.8	248.4	222.5	190.7	175.4	161.3	142.5	128.3	117.7	110.7	108.3
57.5°	236.7	215.4	190.7	159.0	143.7	128.3	110.7	97.7	88.3	82.4	81.2
60°	204.9	184.9	161.3	129.5	114.1	101.3	82.4	69.5	61.3	56.5	54.1
62.5°	181.4	162.5	140.1	110.7	96.6	83.6	66.0	54.1	47.1	42.4	40.0
65°	159.0	140.1	120.1	93.0	81.2	69.5	53.0	42.4	35.3	30.6	28.3
67.5°	135.5	119.0	100.1	77.8	66.0	56.5	42.4	33.0	27.1	23.5	21.2
70°	111.8	96.6	81.2	62.4	54.1	44.8	33.0	25.9	20.1	17.7	15.3
72.5°	88.3	76.5	63.6	48.2	41.2	35.3	25.9	18.8	15.3	12.9	10.6
75°	66.0	57.7	47.1	36.5	30.6	25.9	18.8	14.1	11.8	9.5	8.3
77.5°	47.1	40.0	33.0	24.7	22.4	18.8	12.9	10.6	8.3	5.9	4.7
80°	31.8	28.3	22.4	17.7	14.1	12.9	9.5	7.0	4.7	3.6	3.6
82.5°	21.2	17.7	14.1	10.6	9.5	8.3	5.9	4.7	3.6	2.3	2.3
85°	12.9	10.6	8.3	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°	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7
2.5°	925.4	918.4	913.7	919.6	921.9	918.4	921.9	927.8	933.7	934.8	918.4
5°	926.6	919.6	917.2	924.2	925.4	924.2	927.8	936.1	943.1	945.5	929.0
7.5°	926.6	921.9	920.7	929.0	930.2	929.0	934.8	944.3	951.3	956.0	939.5
10°	924.2	921.9	923.1	930.2	932.5	932.5	940.8	951.3	958.4	963.1	946.6
12.5°	920.7	920.7	920.7	929.0	931.3	932.5	939.5	953.7	958.4	965.5	949.0
15°	914.8	914.8	914.8	923.1	926.6	926.6	934.8	947.8	953.7	960.8	944.3
17.5°	904.2	904.2	905.4	912.4	916.0	916.0	924.2	938.4	941.9	950.2	933.7
20°	888.9	888.9	890.1	897.2	900.7	898.3	909.0	920.7	924.2	931.3	914.8
22.5°	866.5	866.5	866.5	873.6	876.0	874.8	885.4	896.0	896.0	905.4	887.8
25°	833.6	835.9	833.6	840.6	843.1	841.9	851.3	860.7	858.3	868.9	851.3
27.5°	793.6	792.4	792.4	798.3	798.3	797.1	804.2	814.8	812.4	819.5	803.0
30°	738.3	741.8	735.9	744.1	740.6	738.3	742.9	752.4	748.8	754.7	741.8
32.5°	674.6	670.0	670.0	670.0	672.3	666.4	671.1	675.9	672.3	678.2	664.1
35°	591.0	592.3	588.7	589.9	591.0	584.0	588.7	593.4	588.7	592.3	579.3
37.5°	507.5	508.6	500.4	505.1	500.4	498.0	502.8	505.1	500.4	503.9	489.8
40°	423.8	421.5	420.4	420.4	421.5	415.6	419.2	422.7	419.2	421.5	408.6
42.5°	350.9	349.7	347.3	348.5	344.9	343.8	344.9	348.5	344.9	347.3	337.9
45°	287.2	284.9	281.4	282.6	282.6	276.7	280.2	282.6	279.0	280.2	272.0
47.5°	228.4	224.9	224.9	223.7	223.7	221.3	224.9	223.7	220.2	222.5	214.3
50°	177.8	175.4	175.4	175.4	175.4	171.8	173.1	175.4	171.8	171.8	167.2
52.5°	138.9	135.5	133.0	133.0	133.0	131.9	131.9	133.0	129.5	129.5	128.3
55°	104.8	103.6	100.1	100.1	100.1	96.6	97.7	97.7	96.6	96.6	93.0
57.5°	77.8	74.2	71.8	71.8	69.5	69.5	68.3	69.5	67.1	67.1	64.7
60°	51.8	49.4	48.2	47.1	47.1	45.9	47.1	45.9	45.9	44.8	43.6
62.5°	37.6	35.3	33.0	33.0	33.0	31.8	31.8	31.8	31.8	31.8	30.6
65°	27.1	24.7	24.7	23.5	23.5	22.4	22.4	22.4	22.4	22.4	21.2
67.5°	18.8	17.7	16.5	16.5	16.5	16.5	16.5	16.5	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°	9.5	9.5	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
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



TEST NUMBER: P857275

CATALOG NUMBER: LX4C20D010 EX4C209840 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	913.7	913.7	913.7	913.7	913.7	913.7	913.7	913.7
2.5°	936.1	934.8	932.5	936.1	926.6	923.1	921.9	932.5
5°	949.0	946.6	946.6	950.2	939.5	937.2	934.8	946.6
7.5°	960.8	958.4	958.4	961.9	952.6	950.2	947.8	959.6
10°	967.8	967.8	967.8	970.1	961.9	959.6	958.4	970.1
12.5°	971.4	971.4	970.1	974.9	964.3	964.3	961.9	973.7
15°	966.6	966.6	966.6	970.1	960.8	958.4	958.4	967.8
17.5°	954.9	954.9	953.7	957.3	946.6	946.6	945.5	956.0
20°	937.2	937.2	934.8	939.5	929.0	925.4	924.2	934.8
22.5°	909.0	907.8	906.6	909.0	899.6	897.2	896.0	905.4
25°	872.5	871.3	868.9	871.3	860.7	857.1	857.1	864.2
27.5°	820.7	820.7	817.1	820.7	808.9	807.7	806.5	814.8
30°	757.1	752.4	750.0	754.7	742.9	742.9	740.6	748.8
32.5°	678.2	673.4	672.3	674.6	664.1	660.5	665.2	670.0
35°	587.6	588.7	584.0	584.0	574.5	575.7	577.0	584.0
37.5°	500.4	498.0	496.9	498.0	491.0	488.7	486.3	493.3
40°	419.2	413.2	412.1	412.1	406.2	405.0	406.2	409.8
42.5°	342.6	341.4	336.7	339.1	333.2	335.6	334.4	334.4
45°	276.7	277.9	273.1	276.7	272.0	268.4	268.4	270.8
47.5°	219.0	219.0	217.8	217.8	214.3	215.4	213.1	216.6
50°	169.5	169.5	167.2	168.4	166.0	166.0	164.8	166.0
52.5°	129.5	128.3	128.3	127.2	124.8	126.0	127.2	124.8
55°	94.2	95.3	93.0	94.2	91.8	93.0	91.8	93.0
57.5°	64.7	66.0	63.6	66.0	63.6	64.7	63.6	63.6
60°	44.8	44.8	43.6	44.8	43.6	43.6	42.4	44.8
62.5°	30.6	30.6	30.6	30.6	30.6	29.4	30.6	30.6
65°	22.4	21.2	21.2	21.2	21.2	21.2	21.2	21.2
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°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
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)